Welcome to National Recycling Coalition

National Zero Waste Conference Webinars

Reduce and Reuse Town Hall

October 8, 2020
Webinar Logistics

Open or Close Panel

Attendees automatically muted

Submit a Question

THIS WEBINAR IS BEING RECORDED

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NZWVC Webinars

- 8/27 – Diversity, Equity & Inclusion
- 9/10 – Product Policies
- 9/24 – Zero Waste on Campuses & Businesses
- **10/8** – Reduce and Reuse
- 10/22 – A – ReThink and Redesign
- 10/22 – B – Zero Waste Community Planning
- 11/5 – National Legislation & Regulations
- 11/19 – Hard to Recycle Materials
Welcome Panelists!

Nathan Proctor, U.S.PIRG – Right to Repair

Leah Tischler, SBM Management – TRUE Zero Waste Implementation

Samantha Sommer, UPSTREAM – Reusable Foodware Models

Jacky Brown, Goodwill Industries of San Diego County – The Road to Zero Waste is Paved with Jobs

Dave Bennink, Building Deconstruction Institute – Deconstruction and Building Materials Reuse
Why is our stuff so hard to fix?

Nathan Proctor,
U.S. PIRG
On average, Americans dispose of 416,000 Phones Every Day.

Image: Fairphone / Close the Loop
Apple Tells Senate It May Offer Rebates for Battery Purchases Amid iPhone Blowback

Company is looking to sharpen response to iPhone slowdown after scrutiny from customers and regulators

By Tripp Mickle and John D. McKinnon
Updated Feb. 6, 2018 2:17 p.m. ET

Apple Inc., responding to U.S. Senate questions about its decision to slow performance on older iPhones, said it is considering rebates for battery replacements for some users affected by the issue.

In a letter to the Senate Commerce Committee made public Tuesday, Apple said it may offer the rebates to customers who replaced their iPhone batteries before
(Reuters) - The U.S. Department of Justice and the Securities and Exchange Commission are investigating whether Apple Inc violated securities laws concerning its disclosures that it slowed older iPhones with flagging batteries, Bloomberg reported on Tuesday.
Run, don’t walk, to replace your iPhone battery for $29

By Geoffrey A. Fowler  January 4  Email the author
Apple iPhone Throttling Debacle Underscores Critical Right To Repair Legislation Issue

Apple has been making headlines for all the wrong reasons lately it seems, from the underselling iPhone X, to its recent #ThrottleGate PR nightmare where the

By Dave Altavilla, CONTRIBUTOR
I cover break-out technologies in mobile, desktop and the data center. FULL BIO ▽
Opinions expressed by Forbes Contributors are their own.

Apple has been making headlines for all the wrong reasons lately it seems, from the underselling iPhone X, to its recent #ThrottleGate PR nightmare where the
iPhone X Breaks into Market Share

2017

<table>
<thead>
<tr>
<th>Model</th>
<th>Share</th>
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<tbody>
<tr>
<td>iPhone 7</td>
<td>19.74%</td>
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<tr>
<td>iPhone 6S</td>
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<tr>
<td>iPhone 6</td>
<td>16.77%</td>
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<tr>
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</tr>
<tr>
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<tr>
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<td>4.77%</td>
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<tr>
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<td>4.77%</td>
</tr>
<tr>
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<td>iPhone 5</td>
<td>1.68%</td>
</tr>
<tr>
<td>iPhone 5C</td>
<td>1.51%</td>
</tr>
<tr>
<td>iPhone X</td>
<td>1.19%</td>
</tr>
<tr>
<td>iPhone 4S</td>
<td>0.58%</td>
</tr>
<tr>
<td>iPhone 4</td>
<td>0.14%</td>
</tr>
</tbody>
</table>

Source: Localytics November 2017
Right To Repair provides what we need to do routine repairs

Require original equipment manufacturers (OEMs) to provide access to:

- Replacement Parts
- Tools
- Schematics or Repair Manuals
- Diagnostic Software

On “fair and reasonable” terms.
Right to repair is growing

88% of Voters in Massachusetts overrode the car companies and passed the automobile owners’ Right to Repair law in November, 2012.

114,322 Americans signed a petition to legalize cell phone unlocking. The White House supports cell phone unlocking—but your voice is still needed to convince Congress.
EU brings in 'right to repair' rules for appliances

By Roger Harrabin
BBC environment analyst

1 October 2019
Microsoft’s Surface Laptop 3 Signals That ‘Right to Repair’ Is Working

The new PC will be modular and repairable, and that’s a major win for consumers.
Support Right to Repair

Nathan Proctor
Director, U.S. PIRG Campaign for the Right to Repair
Twitter: @nproctor
nproctor@pirg.org
Reuse and Reuse in a Large Campus Setting

Leah Tischler
Sustainability Manager

10/8/2020
Reuse and Reduce in a Large Campus Setting: Campus Overview

**CAMPUS BACKGROUND**

- 60,000 People Non Covid times
- Over 16 Million Sq. Feet Offices, Labs
- 96 Number of Buildings
- 28 number of café
- **Diverted 92% for the Fiscal Year**
- Average Monthly Tonnage
  - Landfill 136 tons per month
  - Recycle 449 tons per month
  - Compost 545 tons per month
TRUE ZERO WASTE

- TRUE is a Zero Waste Certification program for facilities
  - U.S. and international
  - Whole systems approach aimed at changing how materials flow through society, resulting in no waste
  - Encourages the redesign so that all products are reused

- Certificated Gold in 2016
  - Largest Hackathon Event Certificated
    - 2018 – Gold
    - 2019 – Platinum
  - Reuse – 3% of total diversion report
  - Reduce – 2% of total diversion report
Reuse and Reduce in a Large Campus Setting: Reuse Programs

**INTERNAL LOGISTICS**

Reusable Shipping Crates
- Team Move Frequently Throughout Campus
- Dispatched for Every Major Move
- Tracked After Collected
- Catering Boxes
  - Used When Moving Catering Throughout Campus
  - Large Events

**REUSE PROGRAMS**

Office Recycle Program
- Free Program to all Employees and Vendors
- Collected, Inspected, Cleaned and Placed in Display Area
- Picked up or Ordered by Work Order System
- Future – Online “Store”

Furniture
- Internal – Warehouse
  - Inspect Items, Clean and Repair
- External – Donated
Reuse and Reduce in a Large Campus Setting: Reduce Programs

**DURABLES**

- Zero Waste Kitchenettes/Café Pilot
  - Cutlery
  - Dining Ware – Bowl, Plates
  - Lose Leaf Tea/Tea Diffusers
  - To Go Boxes

- Dismantled
  - Durable movement
  - Durable Cleaning

**REDUCE PROGRAMS**

- Grasscycling
- Printing
- Future- Campus Wide Procurement Guidelines
**PARTNERSHIPS**

- Reuse Projects
- Tracking

**PALLET EXAMPLE**

- Hundreds of Plastic Pallets Recycled Previously
- Vendor Looking for Long Term Storage Solution
- Began Tracking
Contact Information

Leah Tischler
Sustainability Manager
Email: ltischler@sbmcorp.com
Phone: 206-502-6848
Accelerating Reuse
In the food services sector

Samantha Sommer
Director of Business Innovation
samantha@upstreamsolutions.org
REUSE WINS

• Reduces waste and single-use
• Lower carbon emissions and water use
• **Saves $$$**
• Improved diner and employee satisfaction
• Reduced litter prone packaging
• Business innovation and reuse models support local policies
Then Coronavirus hit...

Food and beverage industry and their employees hit particularly hard.

- Yelp reports that 60% (16k) of restaurant closures so far have been permanent (July, 2020)
- Rapidly changing guidelines and rules
- Lack of clear messaging
- Plastics industry pushing that reusables are not safe
- Food industry staff and consumers may perceive reusables as unsafe during covid and single-use as safer
Pre-Covid
During Covid for Take-out
Pre-Covid
During Covid for Dine-in
How UPSTREAM is meeting the moment and adding value

Step 1: Hold the line on reuse and promote their safety during Covid-19

○ Web landing page for Covid-19
○ Health expert statement
○ FAQ
○ Podcast

Step 2: Research, Interviews, Design Sprint

Step 3: Reuse innovation in take-out food operations
All my takeout has delivered a mountain of trash. So I asked experts how to minimize it.

By Tom Sietsma • September 14
S.F. startup envisions future where all restaurant takeout containers are reusable
solution: open network for take-out

Pioneers + Key Early Adopters + Success Storytelling = Demand for Change

- Clean, sanitized reusable containers are delivered to the restaurant each day.
- Used containers are picked up each day, brought to the dishwashing hub for soaking, washing, sanitizing, and inspecting.
- Meals are provided in the sanitized reusable containers at no cost to the consumer.
- Diners return used containers to one of the many collection drop locations.
containers
take-out, delivery, events, and closed systems like institutional dining and airports

- GreenToGo
- Dispatch
- Sparkl
- Dishcraft
- DeliverZero
- GoBox
- Just Salad

cups
take-out, delivery, events, and closed systems like institutional dining and airports

- Vessel
- r.Cup
- Globelet
- CupZero
- Muuse
- Meiko

refill
grocery and consumer products

- LOOP
- MudLab
- JoyFill
- Re-up Refill Shop
- GoGo Refill
- Strauss Family Creamery
- Zero Grocery

apps
consumer reviews drive business change and diners find businesses with reusables

- PlasticScore
- Remark.eco
- JYBE
- Fill It Forward
business innovation + **policy** = culture change

**ORDINANCE NO. 1527**

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF ARCATA AMENDING CHAPTER 3.5 OF TITLE V OF THE ARCATA MUNICIPAL CODE, TO ESTABLISH REGULATIONS RELATED TO SINGLE USE DISPOSABLE FOODWARE ITEMS AND PLASTIC BOTTLE RESTRICTIONS

**TITLE V—SANITATION AND HEALTH**

**CHAPTER 3.5—WASTE REDUCTION**

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**ARTICLE 3—FOODWARE WASTE REDUCTION**

**SEC. 5478.2. Accessory Foodware Items.**

A. Accessory Foodware items shall be provided only upon request by the Customer or at self-serve stations, except that disposable cups for delivery by a Food Vendor or Food Provider may include tops, spill plugs, and sleeves without request.

B. Food Vendors and Food Providers must provide options for Customers to affirmatively request Accessory Foodware items separate from orders for food and beverages across all ordering point of sale platforms, including but not limited to web, smart phone and other digital platforms, telephone and in-person.

**SEC. 5478.4. Disposable Foodware Charges.**

A. Takeout Food shall only be served in Foodware that conforms to the Disposable Foodware Standards at Section 5478.6.

B. Accessory Foodware shall conform with the Disposable Foodware Standards at Section 5478.6.

C. Food Vendors and Food Providers shall charge Customers twenty-five cents ($0.25) for the Disposable Foodware provided. In addition, Food Vendors and Food Providers shall provide a minimum twenty-five cent ($0.25) discount for Customers who bring their own Reusable Foodware for Take-out Food. Food Vendors or Food Providers may provide a larger discount at their own discretion.

1. Income from the charge shall be retained by the Food Vendor or Food Provider.
WE ARE ALL INFLUENCERS IN OUR COMMUNITIES. Here are a few things to help you stay updated and become a “Solutioneer” with us.

- **MY CONTACT:** samantha@upstream solutions.org
- **SIGN UP FOR OUR WEEKLY EMAIL @:** upstreamsolutions.org/stay-updated
- **FOLLOW US ON SOCIAL:** Instagram, Facebook, Twitter and LinkedIn
- **VISIT OUR WEBSITE:** upstreamsolutions.org ... it’s chock full of resources to help support you during COVID-19 - and beyond!
- **TUNE IN:** to the Indisposable Podcast
- **SUBSCRIBE:** to our YouTube Channel to hear from our heroes of the reuse movement and get inspired about what’s possible with us!
- **DROP US A NOTE:** with any ideas or just to say hello at info@upstream solutions.org
- **JOIN the NATIONAL REUSE NETWORK!**
The Road to Zero Waste is Paved with Jobs
Our mission is to provide employment and training opportunities to people with disabilities and other barriers to employment.
Reuse is the nature of our business.

We recover millions of pounds of usable materials from the landfills each year through our retail and recycling programs.

We set standards in our industry for maximizing the value of donated items.

By shopping/donating with Goodwill, San Diegans are engaging in sustainable purchasing and supporting local job creation.

Source: Zero Waste International Alliance Hierarchy, adopted December 2018
http://zwia.org/zwh/
Donations made via Stores, Bookstores, Storefronts, Attended Donation Centers, Events, Donation Drives or Outlets

Items sorted, tagged or processed to go to a proper facility for sale

Online Sales on Shopgoodwill.com®

Outlets or Clearance Center

Recycling

Disposal when necessary
GOODWILL®

PRESENCE IN THE COMMUNITY

- 25 Retail Stores
- 5 Bookstores
- 5 Storefronts
- 2 Outlets
- 1 Clearance Center
- 14 Standalone Donations Centers
- 5 Community Employment Centers
• Currently at **82% landfill diversion rate**.
• Zero Waste goal by 2030.
• 5 owned locations with solar panels.
• All locations have LED lights.
• Numerous environmental and community awards.
County of San Diego

- Textiles and Linens
- Metal
- Shoes
- Accessories
- Cardboard
- Cans and Bottles
- Books
- Electronics

In 2019, we recycled 13,892,393 lbs. and our Outlets diverted 89,036,271 lbs.

- Goodwill® network
- Recovered 4.6B pounds of people’s used goods, giving these items a second life from retail store sales, salvage sales, and recycling at our outlets.
DELL RECONNECT PROGRAM

- Partnership since 2008.
- 20 electronic collection sites.
- Strict downstream process.
- Secure facility.
- DTSC and CalRecycle Reporting.

GOODWILL® + DELL

Dell Reconnect
Technology recycling with Goodwill®
COSTLY CATEGORIES

HAZMAT

➢ Hazardous Waste hauled: 96,977.1 pounds
  • Cleaning supplies and personal care items mixed with donations.
  • Each location has a designated hazmat station with twenty-two categories.

➢ Hazmat Removal Cost for 2019:
  $226,044.75
  • Retail Stores $155,962.87
  • Donation Centers & Storefronts $21,803.19
  • Bookstores $9,769.84
  • Outlet Centers & Warehouse $37,940.07

FURNITURE

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<td>January</td>
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<td>November</td>
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<td>December</td>
<td>34</td>
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<tr>
<td>Avg # Containers:</td>
<td>26</td>
</tr>
<tr>
<td>Avg Cost:</td>
<td>$1,684</td>
</tr>
</tbody>
</table>
GOODWILL®

COVID-19 IMPACT

Preparing Our Stores
• Quarantine donations and labor shortages have caused some backup of donations within the production system.

• Closed borders in Central America, South America, Africa and other countries have contributed to backups in Goodwill textile recycling operations.

• Implemented safety protocols within stores much like regular retailers. Some of these protocols include social distancing, mask use for employees and customers, touchless donations, increased cleaning of high touch areas.

• Our business is essential, as it provides an efficient way to repurpose and recycle donations and supports our mission.
CREATING JOBS

• Over 900 Goodwill ambassadors.
• Training and development opportunities.
• Friendly, helpful, and creative.
• We served 6,541 people in 2019.

We serve our community and are Making Good Happen!
Jacky Brown
Vice President of Retail
Goodwill Industries of San Diego County
jbrown@sdgoodwill.org
RE-USE Consulting
Say “No!” To The Track-Hoe
Sustainable Alternatives to Demolition
Building Deconstruction—Material Salvage—Used Building Material Sales
Building Decon Institute

By the numbers:

100,000,000+ pounds diverted from the landfill
10000+ acres trees saved
1000+ structures deconstructed
100s of jobs created
100+ reuse ops
1 mission
A Lifetime's Worth of Waste

Personal Waste
120,000+ pounds
In 75 years

Demolition Waste
120,000+ pounds
In 1 day

Demolition of an average American home is equivalent to a lifetime's worth of waste!
Consider Building Deconstruction and Reuse

The EPA states that Americans produce an average of 4.40 pounds of waste/day

The average American home over the last 50 yrs. is 2000 sq ft + weighs about 60 pounds/sq ft

Infographic location: www.reuseconsulting.com

The Cycle of Waste is Accelerating

- Number of Buildings
- Quality of Materials
- Ability to Recycle Materials
- Age of Buildings when Demolished
Demolition: Paying someone to throw all your possessions away so you can buy them all over again
Design for Disassembly: From Idea to Reality
Panelization of structures

‘POST-FABS’
Reuse Innovation Center – Portland, OR

- Supply and Demand in one place
- Synergy
- Innovative products
- Explore limits of landfill diversion
- Repair station
- Workforce development
These are the people I help

Actually, they’re helping me. Join the reuse movement!
Building Deconstruction Institute
re-use@comcast.net-reuseconsulting.com
Thank you Panelists!

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- zanker recycling
- GREEN MOUNTAIN TECHNOLOGIES
- National Recycling Coalition

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