



Raytheon`s Road to Zero Waste

Brian Balukonis

brian_j_balukonis@raytheon.com

Program Agenda

- What is Zero Waste
- US Zero Waste Business Council (USZWBC)
- Raytheon`s Road to Zero Waste



Overview

Raytheon Company – a technology and innovation leader specializing in defense, civil government and cybersecurity markets throughout the world.

- 2014 NET SALES: \$23 BILLION
- 61,000 EMPLOYEES WORLDWIDE
- HEADQUARTERS: WALTHAM, MASSACHUSETTS



Recent Recognitions

2006	EPA WasteWise Honorable Mention Partner of the Year – Large Business
2007	EPA WasteWise Partner of the Year – Large Business
2008	EPA WasteWise Gold Achievement Recycling in the Workplace
2010	MassRecycle Non-Recycling Business Category
2011	EPA WasteWise Partner of Year – Very Large Business
2012	Mass Recycle Large Business Recycling Award
2015	USWZBC Zero Waste Certification-Platinum & Gold



“Zero Waste” Definition

“Zero Waste is a goal that is both pragmatic and visionary, to guide people to emulate sustainable natural cycles, where all discarded materials are resources for others to use.

Zero Waste means designing and managing products and processes to reduce the volume and toxicity of waste and materials, conserve and recover all resources, and not burn or bury them.

Implementing Zero Waste will eliminate all discharges to land, water or air that may be a threat to planetary, human, animal or plant health. Businesses and communities that achieve over **90% diversion** of waste from landfills and incinerators are considered to be successful in achieving Zero Waste, or darn close. ”



From: [Zero Waste International Alliance](#)

USZWBC History

OUR HISTORY

U.S. Zero Waste Business Council (USZWBC) is an outgrowth of the work done by the Earth Resource Foundation (ERF), GrassRoots Recycling Network (GRRN), and the Zero Waste International Alliance (ZWIA) to identify and support Zero Waste Businesses. Since the late 1990s, GRRN has organized presentations by Zero Waste Businesses at national conferences and highlighted on its website examples of Zero Waste Businesses. GRRN developed Zero Waste Business Principles that were subsequently adopted by ZWIA worldwide.

Since 2005, ERF organized the only conferences in the U.S. that focused solely on Zero Waste Businesses. Over the past 3 years, ERF has researched model certification programs and business models to evaluate how best to develop a third party certification system for Zero Waste Businesses in the U.S.

In 2011, ZWIA organized a Certification Committee to evaluate how to develop certification programs for Zero Waste Communities, Businesses, Facilities, Events, Service Providers, Training Programs and Professionals. In February 2012, ZWIA adopted a Zero Waste Business Recognition Program to establish international standards for recognizing those businesses that divert 90% of their discarded materials from landfills and incinerators. In February 2012, GRRN was approved as the National Affiliate for the ZWIA Zero Waste Business Recognition Program in the U.S. GRRN will be working closely with USZWBC to implement that program.

USZWBC began in October 2011 and received approval as a California Public Benefit Corporation in January of 2012. USZWBC received its IRS 501 (c) 3 nonprofit status in 2014.

USZWBC is seeking Business [Members](#) to assist USZWBC to become the Zero Waste standard for businesses. USZWBC is working to build an exceptional team of Board Members, Business Members, and Zero Waste experts.

Developed First ZW Certification Program

USZWBC Mission

- To educate, inform and document the performance of Zero Waste Businesses using scientific methods to help businesses and communities become more healthy and sustainable.



Raytheon Became Founding Member in 2013

USZWBC ZW Business Associate



Serving Up Sustainability

Serving Up Sustainability emphasizes reusability over disposability and ensures that china plates, silverware, and reusable cups receive first priority in usage over paper or eco-friendly materials used in the dining centers.

Future dining center goals of ***Serving Up Sustainability*** will be focusing on increasing environmentally preferable purchasing, expanding source reduction efforts, and exploring effective waste disposal methods, including composting.



Eliminated Polystyrene (Styrofoam™) in Dining Centers

ZOWe Introduced in 2012

- Implemented a new “Zero Office Waste” program called **ZOWe** at IDS New England sites
- Transitioned desk side “trash” containers in offices to compost containers
- Office waste primarily categorized as: compost and recycle

No More “Trash”!

Material Streams & Labels

- Two Primary Streams & Labels – Recycle and Compost



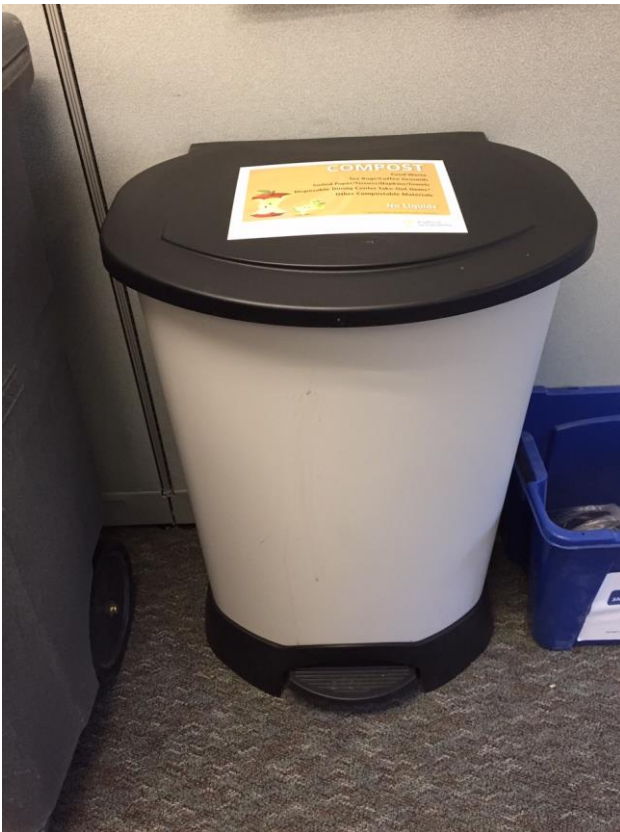
Standardized Collection Containers

- Desk-side



Standardized Collection Areas

- Conference Rooms
- Common Areas



Standardized Collection Areas

- Dining Centers
- Rest Rooms



Compostable & Non-Compostable Liners

- One type of compostable liner in use
- All other liners are non-compostable



Collection

- Dedicated compactors with tippers



Changes to Food Service



Plasma Communication

**Help Raytheon in its
pursuit of zero waste**

9 out of 10 people would
recycle more if it were
made easier.

Starting soon it will be easier
than ever at Raytheon.



Plasma Communication

What to Recycle?

Bottles	Plastic Grocery Bags
Cups	Folders
Foil	Copy Paper*
Cans	Envelopes
Yogurt Cups	Magazines
Chip/Snack/Sandwich Bags	No Liquids
Candy Wrappers	<i>*No classified, proprietary or other sensitive information</i>
Bubble Wrap	

If you have any questions please contact your EHS partner.



What to Compost?

Napkins	All Utensils
Tissues	Hot/Cold Beverage
Paper Towels	Containers and Lids
Paper Plates & Cups	Food Waste
Clear "plastic-like" salad and yogurt/pudding-type containers from IDS dining centers/Outtakes stores	Tea Bags/Coffee Grounds
	No Liquids

If you have any questions please contact your EHS partner.



Plasma Communication

When in Doubt, Recycle!

Help Raytheon in its pursuit of zero waste. It is the right thing to do and it's sustainable. New labels were made in support of Raytheon's *Zero Office Waste (ZOWe)* program to help you do the right thing.



No more confusion, just two waste streams – Compost or Recycle. Take a second to read the labels and when in doubt, recycle!

Compost Location

- Compost processed at WeCare Environmental in Marlborough MA



Key Takeaways

- **Work with Service Provider for Resource Management Services**
 - Identify all processes & costs (processing, transportation & rental)
 - Determine proper external storage container & pickup frequency
- **Compost Facility**
 - Identify acceptable requirements
 - Identify contamination process
- **Pre-consumer/Post-consumer collection**
 - Determine where compostable materials will be collected in building
- **Containers**
 - Determine types of internal collection containers and locations
- **Liners**
 - Determine if compostable, non-compostable or no liners will be used
- **Labels**
 - Determine type of labels to be used
 - Ensure clarity and readability
- **Training & Communication**
 - Use service provider to conduct training
 - Ensure employees know & understand program

We are still climbing!



Gunks, NY - 2013



Fairview Dome, Tuolumne Meadows, CA - 2010



Bugaboos, BC - 2007



Kalymnos, Greece - 2011



Sardinia, Italy - 2008



Red River Gorge, KY - 2011



Arkansas - 2012