



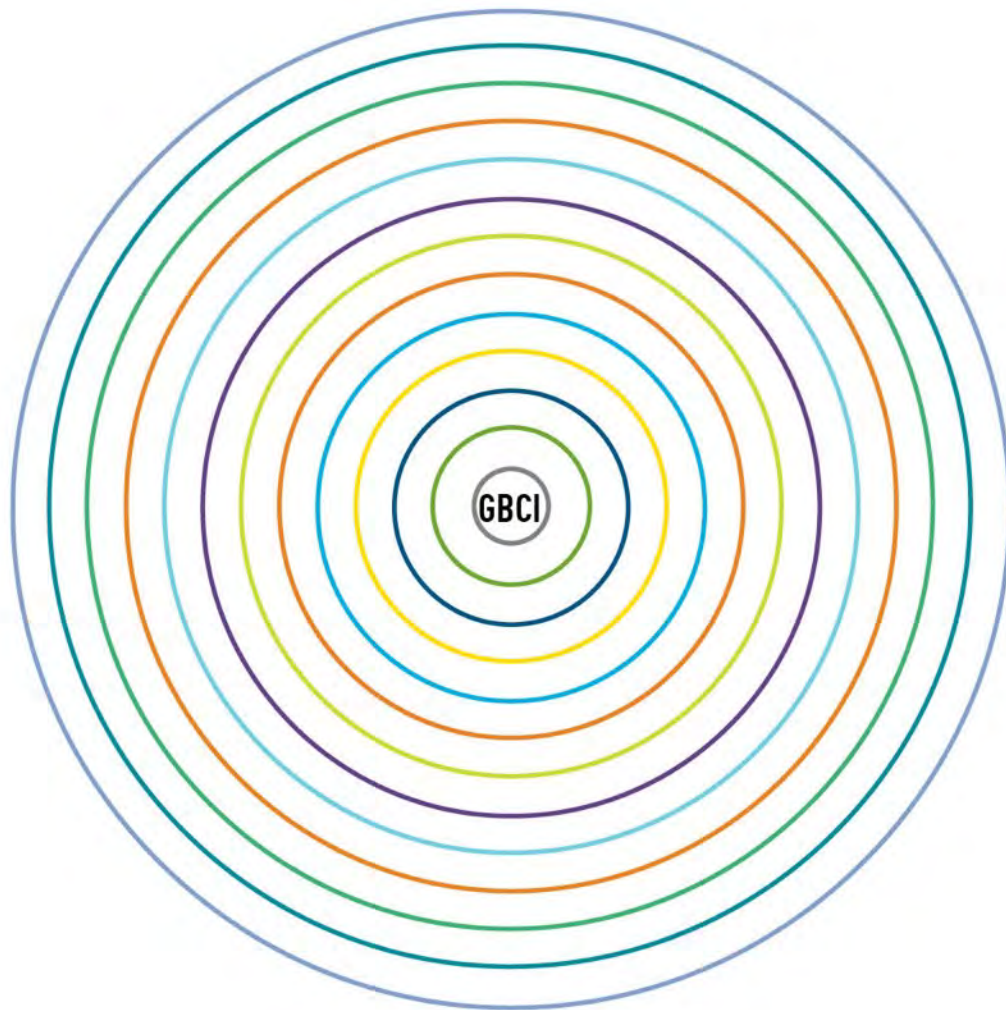
STEPHANIE BARGER

Director, Market Transformation & Development,
TRUE Zero Waste Certification, GBCI

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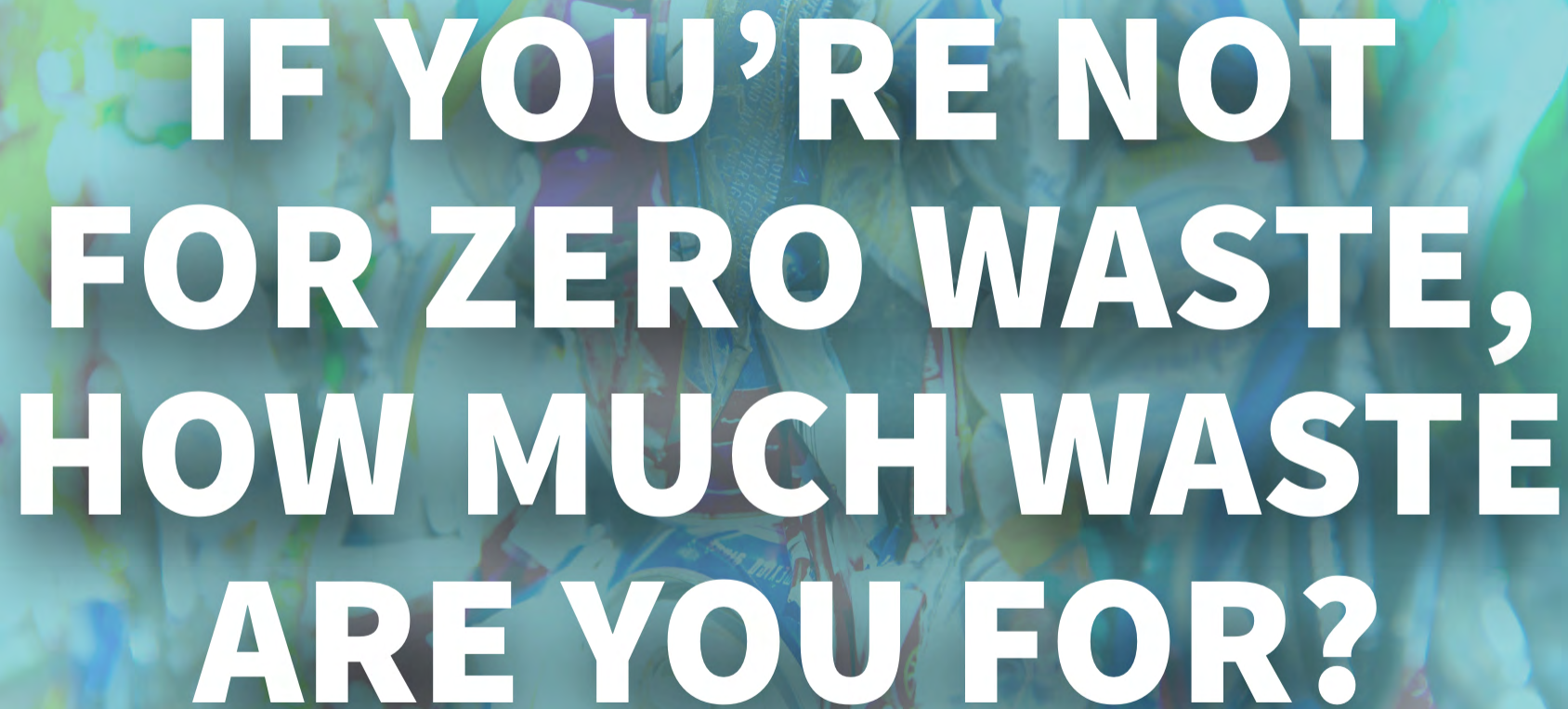


Total Resource Use and Efficiency



Gbci.org
Usgbc.org

LEED
WELL
PEER
GRESB
SITES
EDGE
PARKSMART
TRUE
ICP
STAR
RELi
C2C



**IF YOU'RE NOT
FOR ZERO WASTE,
HOW MUCH WASTE
ARE YOU FOR?**



Zero waste is a goal that is ethical, economical, efficient and visionary, to guide people in changing their lifestyles and practices to emulate sustainable natural cycles, where **all discarded materials are designed to become resources for others** to use.



Zero means designing and managing products and processes to systematically avoid & eliminate 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 are a threat to planetary, human, animal or plant health.

**REDESIGN. RETHINK. REDUCE.
REUSE. GOING BEYOND RECYCLING.**

Spotlight: Toyota

Moving upstream from recycling to reuse

- Since 2002, Toyota's parts & accessories returnable container program has saved over **220 million** pounds of wood & **145 million** pounds of cardboard
- That's the equivalent of **2.7 billion** trees & **\$1 billion** in packaging costs savings
- Currently, about **11 million parts** & more than **60,000** reusable shipping containers travel through the parts & accessories network
- All of these savings equal more resources for the future & lower costs for Toyota's parts & accessories



The Zero Waste Economy:

Designing a full-cycle stream—Upstream **AND** Downstream



Design for the environment, not the dump



Shifting subsidies



Changing the rules



Jobs, Jobs, Jobs



Clean production



Retail stores



Consumer buying power



Producer responsibility



Resource recovery parks

Partnerships to create a zero waste economy for all



Circularityinaction.com





TRUE CERTIFICATION

The goal of organizations and facilities participating in the TRUE Zero Waste certification program is to **divert all solid waste** from the landfill, incineration (waste-to-energy) and the environment.



REQUIREMENTS for TRUE Zero Waste certification:

Facilities achieve certification by meeting 7 minimum program requirements & attaining at least 31 points on the TRUE Zero Waste scorecard:



- ✓ Company or project seeking certification has a zero waste policy in place
- ✓ Average of 90% or greater diversion from landfill, incineration (WTE) & the environment for 12 months
- ✓ Meet all federal, state/provincial, and local solid waste and recycling regulations
- ✓ Data documents a base year of waste diversion and measurements
- ✓ Submit 12 months of waste diversion data to GBCI annually to keep certification current
- ✓ Does not exceed a 10 percent contamination level for any materials that leave the site
- ✓ Submit a case study of zero waste initiatives to be published on this website

TRUE Zero Waste Certification Levels | 81 TOTAL POINTS

| | |
|------------------|---------------------|
| CERTIFIED | 31-37 points |
| SILVER | 38-45 points |
| GOLD | 46-63 points |
| PLATINUM | 64-81 points |

TRUE Zero Waste Rating System Overview of Categories & Points

| | | | |
|--------------------------------|----------|-----------------------------------|-----------|
| Redesign | 4 points | Leadership | 6 points |
| Reduce | 7 points | Training | 8 points |
| Reuse | 7 points | ZW Analysis | 5 points |
| Compost (Re-earth) | 7 points | Upstream Management | 4 points |
| Recycle | 3 points | Hazardous Waste Prevention | 5 points |
| ZW Reporting | 4 points | Closed Loop System | 4 points |
| Diversion (Minimum 90%) | 5 points | Innovation | 3 points |
| ZW Purchasing | 9 points | Total Points | 81 points |

TRUE Zero Waste Facilities:

Cutting Costs & Improving Their Bottom Lines

TESLA TOYOTA



*Project is a facility inside a larger campus



The **TRUE Advisor** is a professional certificate program offered by GBCI. TRUE Advisors support the implementation of TRUE programs, prepare businesses for TRUE Zero Waste certification, and assist organizations through the certification process.



ZERO WASTE STRATEGIES



Goal: Eliminate your trash, recycling & waste bins

- › Conduct a zero waste audit & analysis
- › Zero waste profiling — know your trash
- › Reduce size/amount of product packaging
- › Reduce risk/increase efficiency
- › Have tracking program for material flows
- › Leadership & employee engagement

Know where materials come from



Waste audit vs. zero waste audit





WHERE IS YOUR ORGANIZATION AT?

Environmental Stewardship





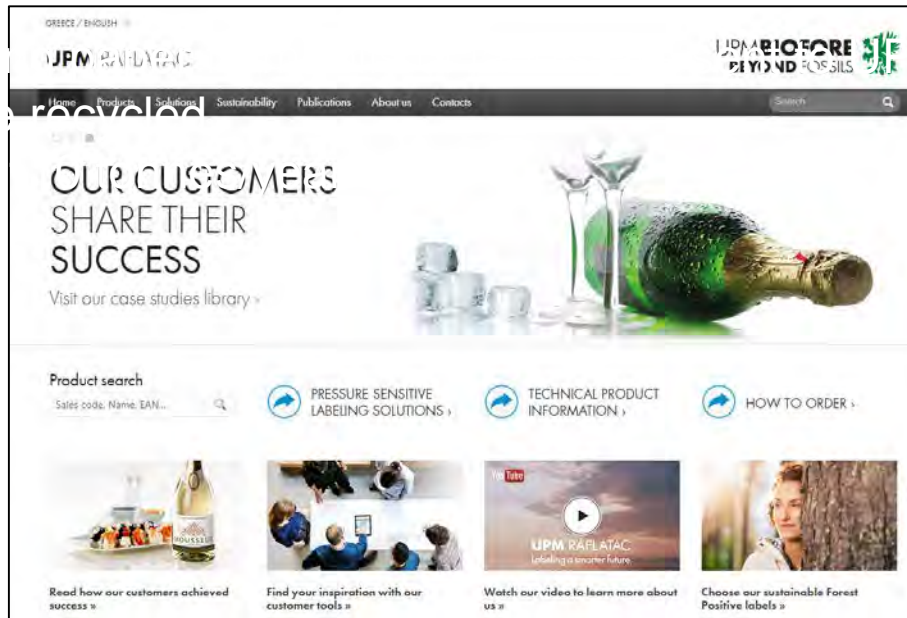
BE THE CHANGE

- Leader in Zero Waste Community Plans
- Educate Industry/Business Sector
- Create new markets (composting sites)
- Zero Waste Community Events



ZERO WASTE SPOTLIGHTS

Colgate Redesign



Innovation in Design



SANATM
PACKAGING



Partnership between Eurest & Raytheon

- Raytheon incorporated sustainability language in the Eurest Enterprise agreement
- Annual Eurest/Raytheon safety and sustainability summit
- Raytheon & Eurest partnered in FRC to focus on achieving goals

grab. reuse. save.
return and repeat.

make the smart decision...

with a one-time purchase of a hard plastic clamshell container for \$3.00 in the café.

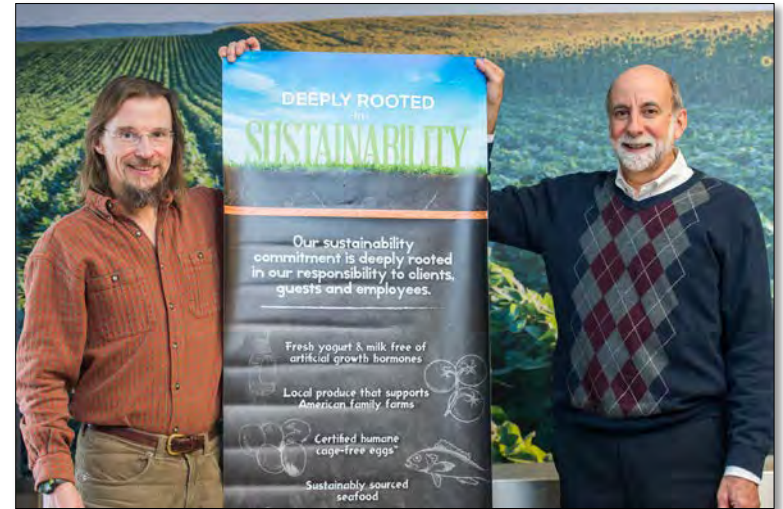


save 10¢
ON "TO GO" ORDERS

Here's how it works...

Whenever you make your order "to go," use the clamshell you previously purchased. When you've finished your meal, bring it back to the café and pick up a clean one to use on your next visit. Nothing more to do, except **receive a 10¢ DISCOUNT** each time you use the reusable clamshell.

LOVE FOOD | NOT WASTE



Sierra Nevada Brewing Co:

- Received **first** ever TRUE certification
- Have two TRUE Zero Waste certifications
- Sierra Nevada Brewing Co. (Mills River) is also LEED Platinum certified
- Through their reduction & reuse commodity program, they save **a half million dollars** every year
- They have **12** different commodities that they sell on a monthly basis



Yellowstone General Stores Warehouse

- TRUE Platinum certified
- Diverted **94.8%** of waste
- 1st national park to receive certification
- Removed 25+ trash bins from warehouse, conducted waste audit, redesigned waste receptacles, implemented composting program, reused packaging materials & worked with vendors & suppliers to assist in upstream efforts
- In the year leading up to facility's audit, warehouse reduced, reused or recycled **271,000+** pounds of material
- Estimated savings over 3-year period leading up to certification were approximately **\$263,000**



The Tesla Factory:

- Received TRUE Gold certification
- The **5.3 million square foot** manufacturing and office facility diverts around **99%** of its waste from landfills.
- About **2%** of the facility's waste goes to waste-to-energy facilities. This ensures that certain discard materials don't end up on the secondary market.
- In 2016, Tesla sent **1.9 million pounds** of compostable materials to a commercial composting facility near the Tesla factory.



Pilot Programs Launching

- Events
- Construction Sites
- Disaster Recovery/
Rebuild
- Resources:
 - Workgroups
 - Toolkits
 - Webinars



Resources:

- TRUE Zero Waste Rating System
- TRUE Advisor Certificate Program Handbook
- Guide to TRUE Zero Waste Certification
- TRUE Zero Waste Application Form
- TRUE Zero Waste Registration Form



FREE

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