

ZERO WASTE - OR DARN CLOSE

Prepared by Portia Sinnott, MS+/LITE Initiatives, 2008

This document is designed to stimulate your interest and demonstrate the depth and breadth of current zero waste and waste related climate recovery efforts. Please be sure to visit some, if not all, of the web sites listed on the last page – they could save you a great deal of time, trouble and research.

In Nature, Biodegradability Is The Norm And There Is No Waste.

Zero Waste, the application of this fact, ensures that products are made to be reused, repaired or recycled into the marketplace or nature. In other words if it can't be recycled – it shouldn't be made! Some people vehemently object to the term "zero waste" because reaching zero discards is impossible. **We suggest they compare it to Zero Accidents or Zero Emissions – obviously programs well worth the effort.**

If it can't be recycled –
It shouldn't be made!

Zero Waste is a philosophy and a design principle for the 21st Century. It is not simply an end-of-the-pipe solution; it is a primary strategy to work upstream to eliminate waste, instead of managing it. In other words, Zero Waste is not simply about putting an end to landfilling and end-of-pipe solutions - it heralds a fundamental change.

It is a path or direction that can be used by communities, businesses, institutions, events and even households to guide our decisions and actions. In the US, the State of California is leading the way: "Now, with recycling and conservation programs in every city, we are able to embrace the zero waste concept as our guiding principal and goal for the future." www.zerowaste.ca.gov. This challenge is also being collaboratively worked on all over the world by thousands of people and agencies. www.grrn.org/zerowaste, www.zwia.org/links.html.

Zero Waste Fundamentals

Recycling Is Not Enough!

Recycling alone will not end our dependency on landfilling and incinerators, nor reverse the rapid depletion of our natural resources. As world population and consumption continue to rise, it is clear that our one-way system of extracting virgin resources to make products that will later be buried or burned or even recycled is not sustainable.

Additional Definitions

Aiming for zero waste means designing products and packaging with perpetual reuse and recycling in mind. It means ending subsidies for wasting. It means closing the gap between landfill prices and their true costs. It means making manufacturers take responsibility for the entire lifecycle of their products. Zero waste efforts, just like recycling efforts before, will change the face of industrial design and personal consumption in the future. Instead of managing wastes, we will manage resources and eliminate waste. -- **Institute for Local Self-Reliance, www.ilsr.org**

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. -- **Zero Waste International Alliance, www.ziwa.org**

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All Organics Out of Landfill

In many municipalities organics are still a major component of the waste stream. The 2004 California Statewide Waste Characterization Study reported that Organics - yard waste, food and compostable paper, averaged 20% of what is still being landfilled. As these materials degrade they create methane, a green house gas at least 23 times more potent than carbon dioxide. Many of these emissions could be reduced or prevented by rigorous organics recycling programs. www.cool2012.com.

Repair and Reuse – The Unsung Heroes

A very important part of every waste management system, reuse and repair businesses do not receive the attention they deserve. The popularity of Craigslist, E-Bay and FreeCycle, well as Goodwill and Salvation Army demonstrates the public's interest, yet most recycling program staff are unfamiliar with local reuse and repair businesses and the materials they handle. For example, few curbside and drop-off programs accept textiles - items made of thread, yarn, fabric, or cloth, yet these goods are easily reused or recycled by businesses that have been around since the advent of urban centers.

Extended Producer Responsibility (EPR)

In the ZW worldview, the long-term responsibility for a product is on the producer of the item, not you the consumer nor the local government agency that oversees the waste stream. The ultimate goal of EPR is clean, safe materials and production and the elimination of waste at each stage of the product's life cycle. www.caproductstewardship.org, www.eprworkinggroup.org, www.productpolicy.org

Precautionary Principle – Do No Harm

If an action, policy or product might cause severe harm, the burden of proof should fall on those who are producing it. In other words, it must be proved to be safe before it is implemented - versus proving it is not unsafe. www.noharm.org, www.safecosmetics.org

True Cost Accounting

The price of a product should reflect the full costs of the environmental degradation and public health impacts associated with the virgin resource extraction, processing, manufacture, transportation, and disposal of that product. When the market prices begin to include such costs, the more environmentally-friendly product will also be the less expensive. www.epa.gov/oppt/library/pubs/archive/acct-archive/index.htm

Zero Waste Also Advocates For:
Ending Tax Payer Subsidies For Wasteful And Polluting Industries
Redesigning Products And Packaging For Durability
Creating Jobs From Discards

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California ZW Resources

California Integrated Waste Management Board Statewide Waste Characterization Study, December 2004 www.ciwmb.ca.gov/Publications/LocalAsst/34004005.pdf	www.ciwmb.ca.gov and www.zerowaste.ca.gov , "The Board promotes a Zero Waste California in partnership with local government, industry, and the public. This means ... reducing waste whenever possible, promoting the management of all materials to their highest and best use, regulating the handling, processing and disposal of solid waste, and protecting public health and safety and the environment."
Zero Waste San Diego	www.zerowastesandiego.org
San Francisco	www.sfenvironment.org/our_programs
Oakland	www.zerowasteoakland.com
Palo Alto	www.cityofpaloalto.org/depts/pwd/recycle/zero_waste_program.asp
San Jose	www.sjrecycles.org/zerowaste.asp
Plus Apple Valley, Berkeley, Culver City, El Cajon, Fairfax, Fresno, Novato, Ocean Beach, Rancho Cucamonga and the following counties: Del Norte, Marin, San Luis Obispo, Santa Cruz, Sonoma <u>Other USA:</u> Boulder County, CO; City of Boulder, CO; Central Vermont Waste Management District; Seattle, WA; Summit County, CO; Matanuska-Susitna Borough, AK; Logan County, OH <u>Elsewhere in the World:</u> Canada, Australia, New Zealand, United Kingdom, Europe, Africa and Asia: http://grn.org/zerowaste/zw_world.html or www.zwia.org/links.html	

Other Resources:

Grassroots Recycling Network/GRRN	www.grn.org/zerowaste
The Story of Stuff	www.storyofstuff.com (20 minutes)
Eco-Cycle, Boulder Colorado	www.ecocycle.org/zerowastevideo (3 minutes) and www.ecocycle.org/zerowaste/zwsystem
Stop Trashing The Environment	www.stoptrashingtheclimate.org
California Product Stewardship Council	www.caproductstewardship.org
The Berkeley Ecology Center	www.ecologycenter.org/zerowaste
Product Policy Institute	www.productpolicy.org
EPR Working Group	www.eprworkinggroup.org
Container Recycling Institute	http://container-recycling.org/zbcwaste
Getting To Zero Waste by Paul Palmer	http://gettingtozerowaste.com
Zero Waste Alliance	www.zerowaste.org
Zero Emissions Research & Initiatives (ZERI)	www.zeri.org
Zero Waste International	www.zwia.org
Compostable Organics Out of Landfills by 2012	www.cool2012.com
Computer TakeBack Campaign	www.computertakeback.com