Zero Waste has been defined by the Zero Waste International Alliance as a philosophy and visionary goal in which manufacturing and supply chains emulate natural cycles, where all outputs are usable inputs for other value-added processes. It means designing products and managing materials and systems for maximum resource conservation, highest, most efficient use, and minimum negative environmental impact. It means eliminating harmful discharges to land, water and air, by preventing rather than managing waste and pollution.

Highest/Best Use

Redesign Manufacturing & Supply Chain

Mandate Extended Producer Responsibility (EPR)

Produce durable, reusable, recyclable, and recycled-content products

Use environmentally sustainable feedstocks & materials

Design for repair, reconditioning, disassembly, deconstruction and recycling

Make brand owners/first importers responsible to take back products & packaging

Reduce/Refuse/Return

Reduce Toxicity

Reduce toxic materials in products

Replace toxic materials in products with less toxic or non-toxic alternatives

Reduce Consumption

Purchase and use less

Apply Environmentally Preferable Purchasing (EPP) standards to purchasing

Reduce Packaging

Purchase products with less packaging

Incentive durable, reusable packaging

Reuse/Preserve Form & Function

Repair and recondition products

Deconstruct and salvage buildings and building products

Support thrift stores and charity collection

Recycle/Compost/Digestion

Recover & return materials to economic mainstream for remanufacture to like-value products

Recover & return materials to economic mainstream for composting to value-added soil amendment products

Ambient temperature (<200 degrees) processing of organic materials for recovery of fuels and energy, with composting of residue

Down Cycle

Recover & return materials to economic mainstream for remanufacture to nonor marginally-recyclable products, such as office paper to tissue paper, or soda bottles to toys or clothing

Bury/Incinerate/Waste-Based Energy

Bioreactor landfilling, when design incorporates sufficient safety & environmental protections

õBeneficialö landfill use, such as alternative daily cover (ADC) or landfill construction

Traditional landfilling

High-temperature, energy-intensive processing to recover fraction of embodied energy, from non-source-separated, mixed resources, including but not limited to: mass burn, co-firing, fluidized bed, gasification, plasma arc, pyrolysis