

"safest"

"ultimate in sustainability"

"ultimate in sustainability"



Chicken and Broken Glass





Mainway Toys







Safety Aware







Sustainability Aware





I Choose Sustainable Energy









I Repair Things





But I Still Use Fossil Fuels





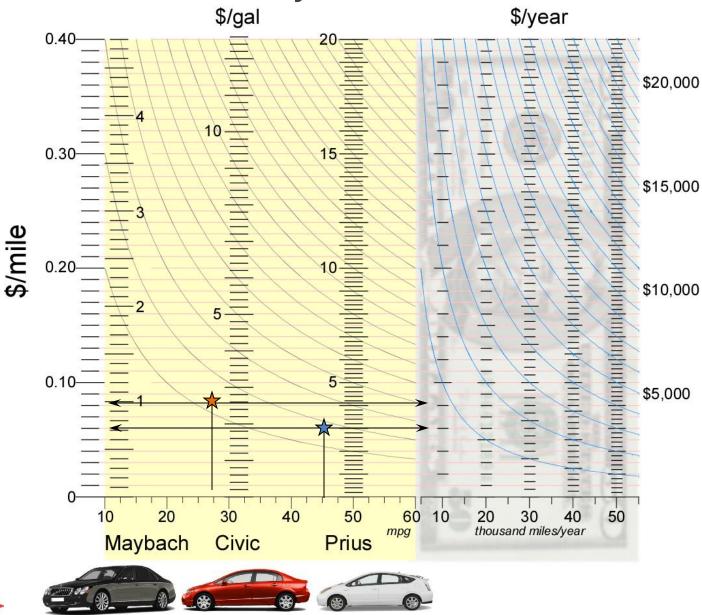
I Make Uneconomical Choices







I Waste Time and Money At Home





I'm destroying the planet slower than you are.





I Waste Time and Money At Home





I Waste Time and Money At Home





My Instincts On Sustainability Can Be Wrong





Embodied Fossil Energy









Which is more sustainable?



A vegan in a Hummer

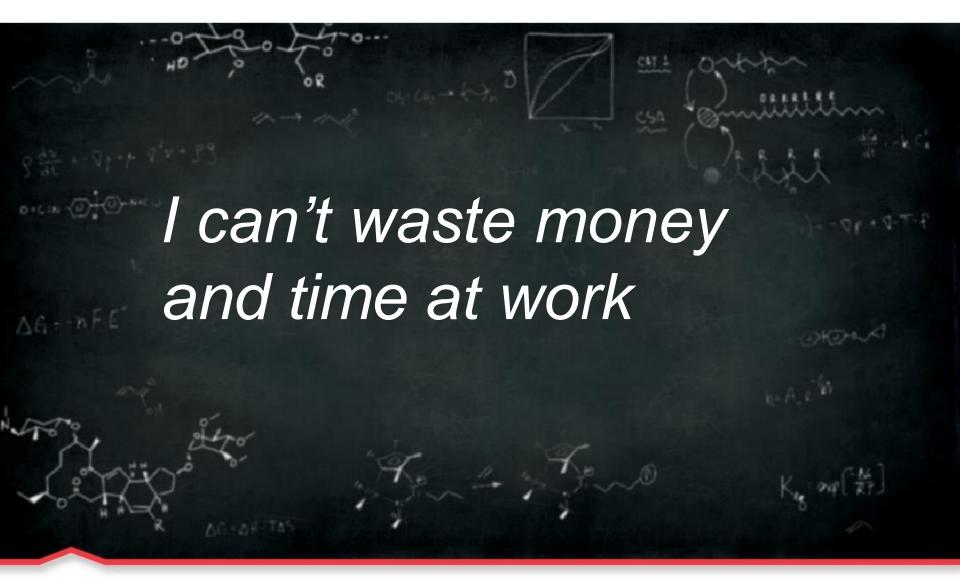


Customer Focus?



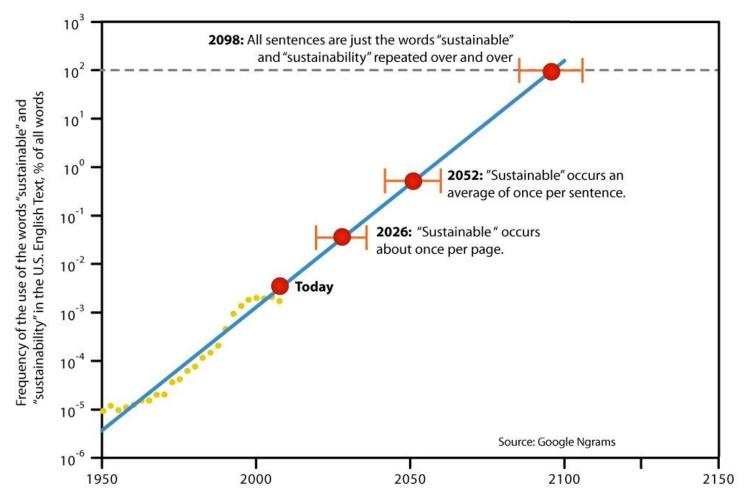


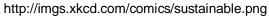
Return Shareholder Value





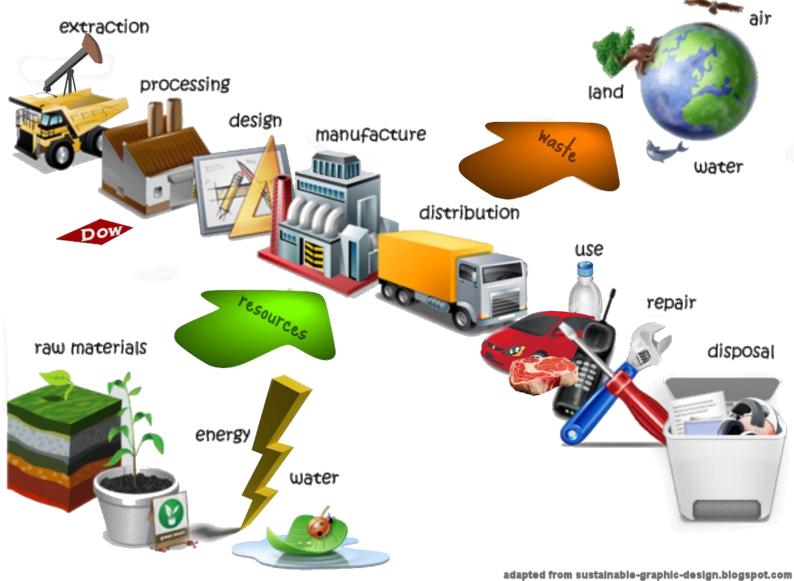
Sustainability is Unsustainable?







Life Cycle Assessment

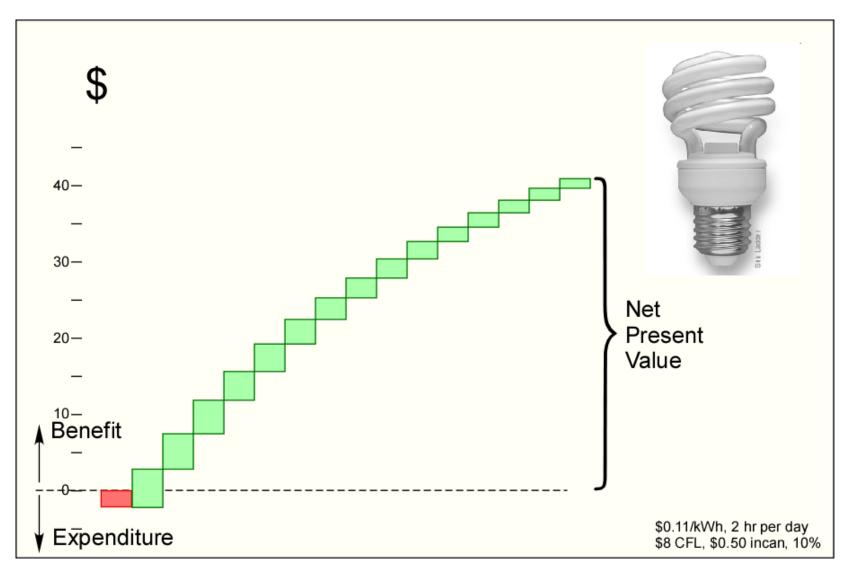






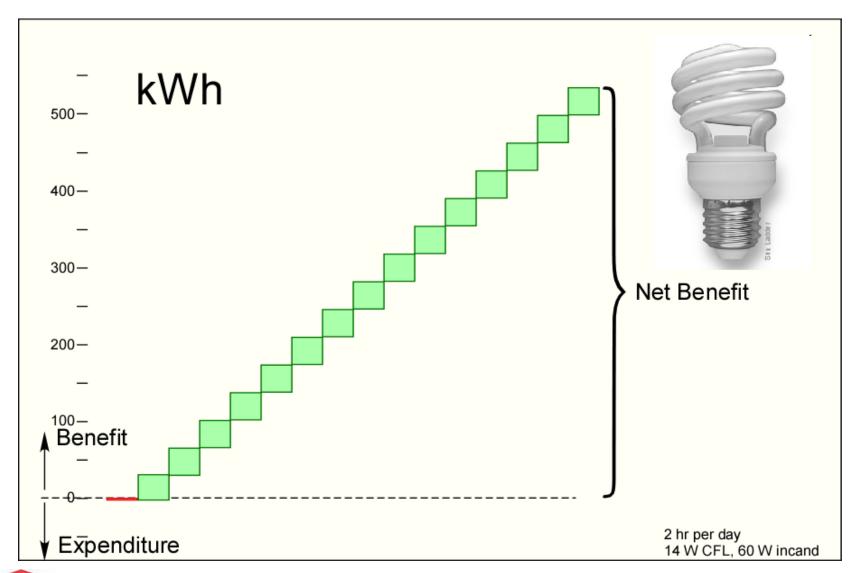


Financial Way of Looking At Benefit





Why Not Sustainability?



Packaging Addresses Global Challenges





Stand-up pouch packaging reduces waste and brings energy savings





	Contents	Impact per 100 oz Cereal		
Package Type		Landfill Discards* (g)	Process GHG** (kg CO ² Eq)	Total Energy** (MJ)
Paperboard and HDPE Liner	11 oz	380.0	.861	12.1
Stand-Up Pouch	12 oz	117.5	.265	9.25

Reduction vs Box				
Landfill Discards	68%			
GHG	69%			
Energy	23%			



Flexible Packaging Examples







Food Packaging



Modern agriculture is the use of land to convert petroleum into food.

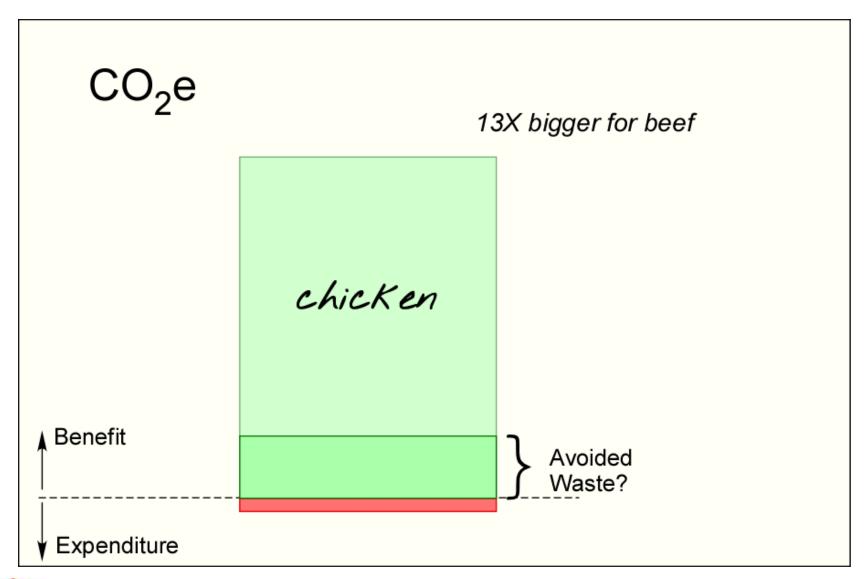
Al Bartlett

40 kWh/kg ~22% wasted

Pimentel and Pimentel, 2003

FAO, 2012



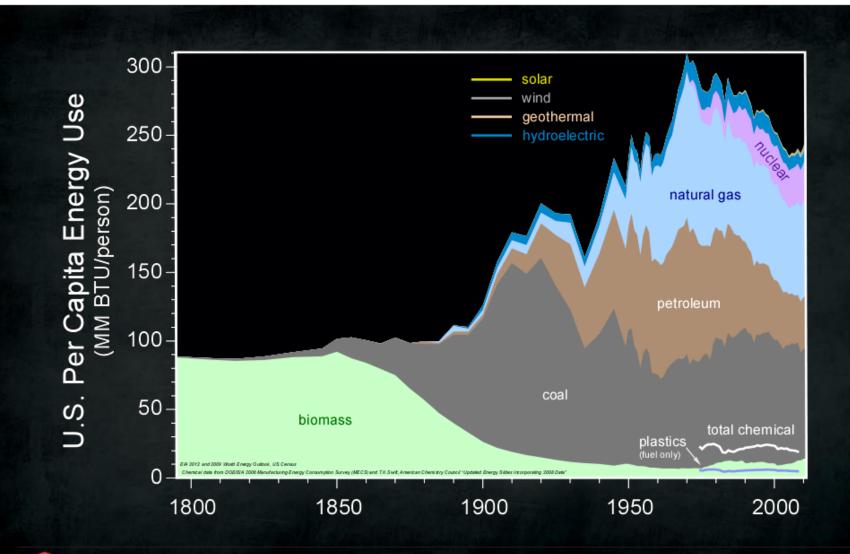


Explore New End of Life Options





Per Capita Energy Use









The End

