

# Sustainability

## @ 3A Composites USA



August 2008

# What is **sustainability** ?

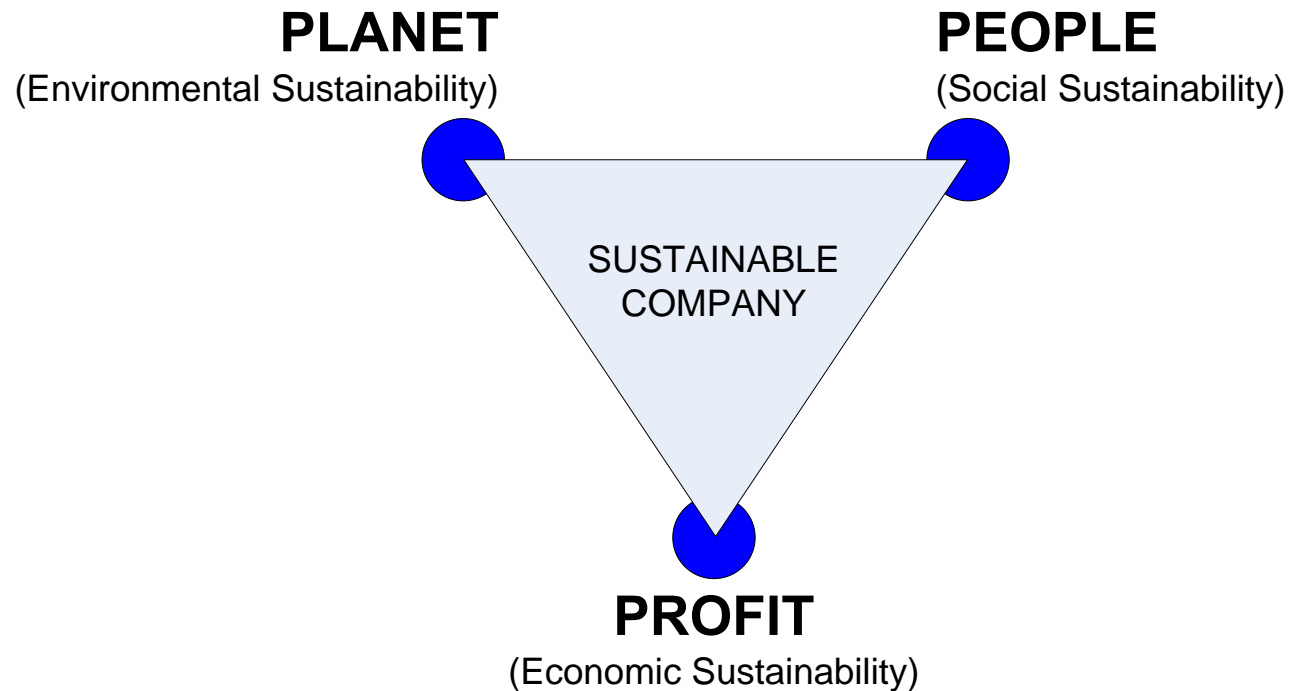


# Sustainability as a journey

**Sustainability**, like quality, is a **journey**. It is a bumpy road lined with continuous improvements. As you make these improvements, you are getting closer to the absolute ideal but you may never reach it.



# Sustainability is . . . 3Ps



***Take care of our planet and the people  
in an economically sustainable way.***



# “Green” product is . . .

. . . a product that has **limited negative impact** on **environment** and **society** while delivering the **same** or slightly reduced **utility** to the customer (quality, performance, features, fabrication, application, durability) at the **same** or slightly higher **price**.



# Controversial Issues

## Green Myths

- Renewable resources vs. petrochemicals
- Biodegradable (greenhouse gas release, landfill vs. bioreactor landfill)
- Biopolymers and biofuels (social impact – food scarcity, deforestation, soil erosion)

## Greenwashing

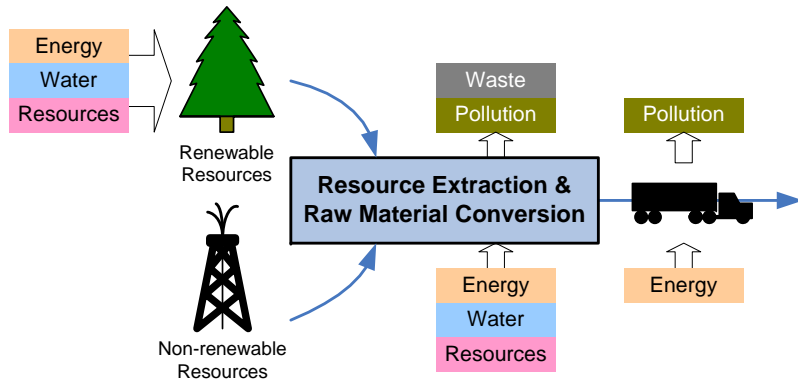
- 6 Sins of Greenwashing
- FTC Green Guidelines



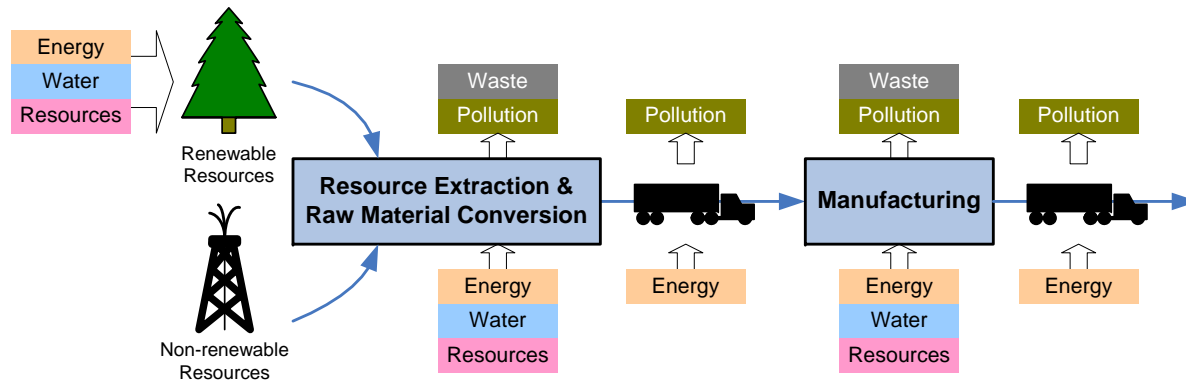
4/17



# LCA (Product Lifecycle Assessment)

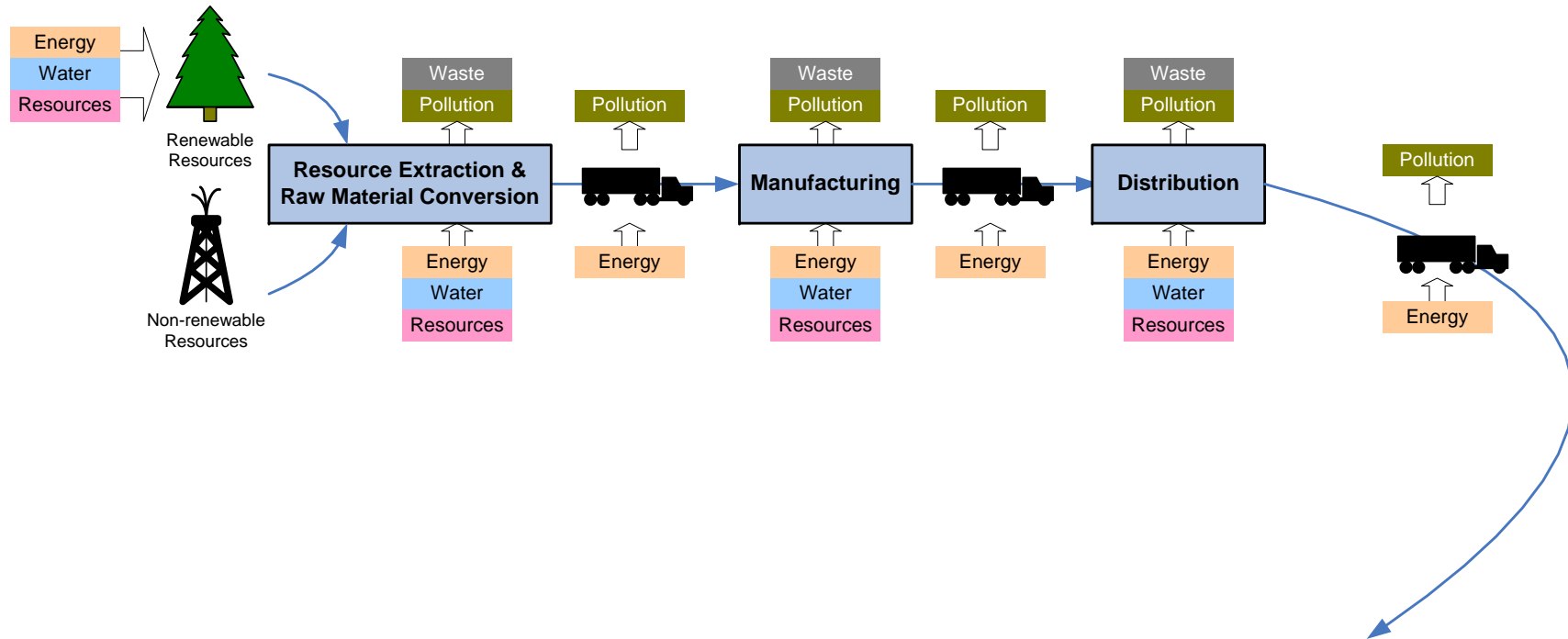


# LCA (Product Lifecycle Assessment)

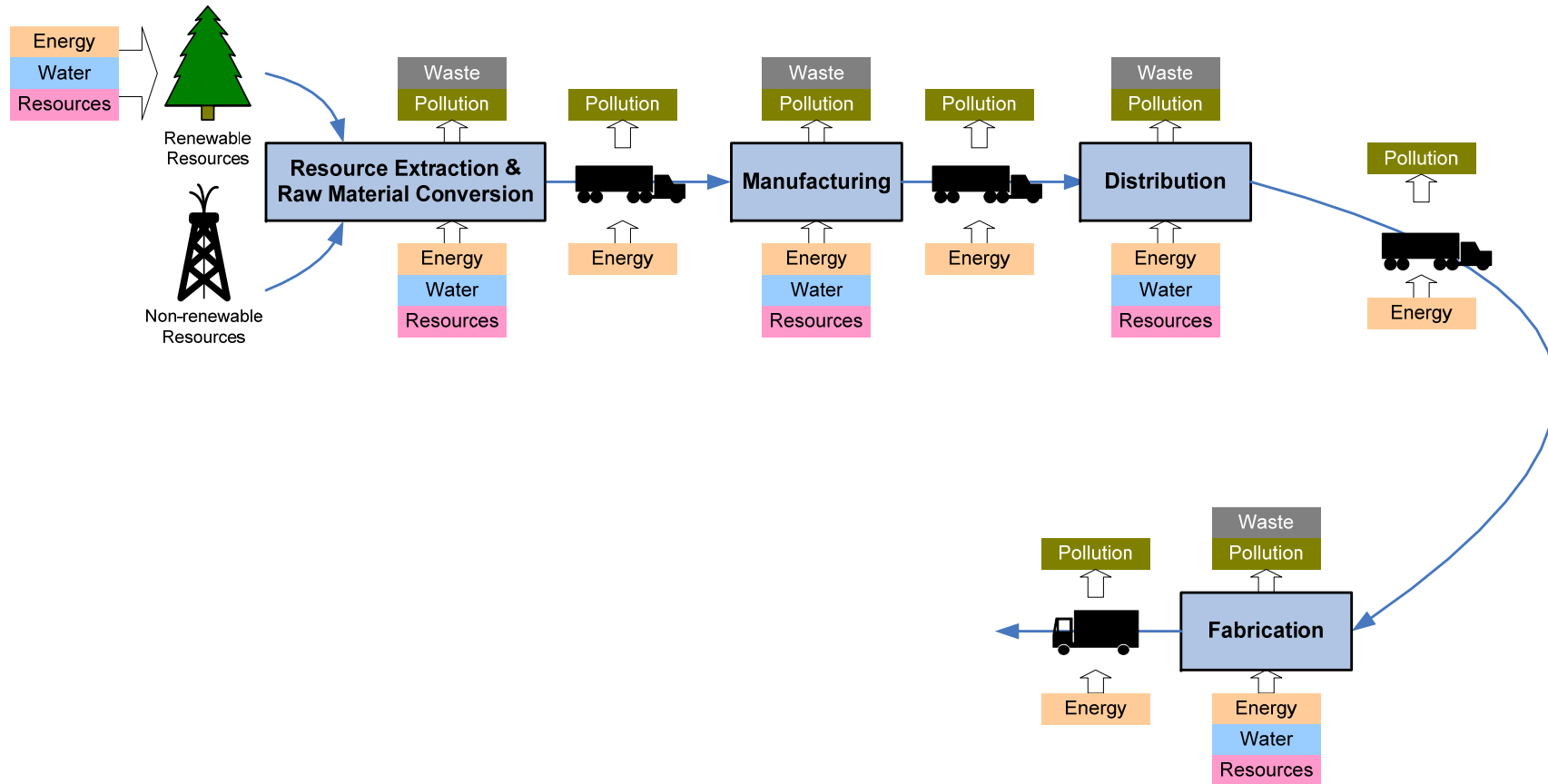




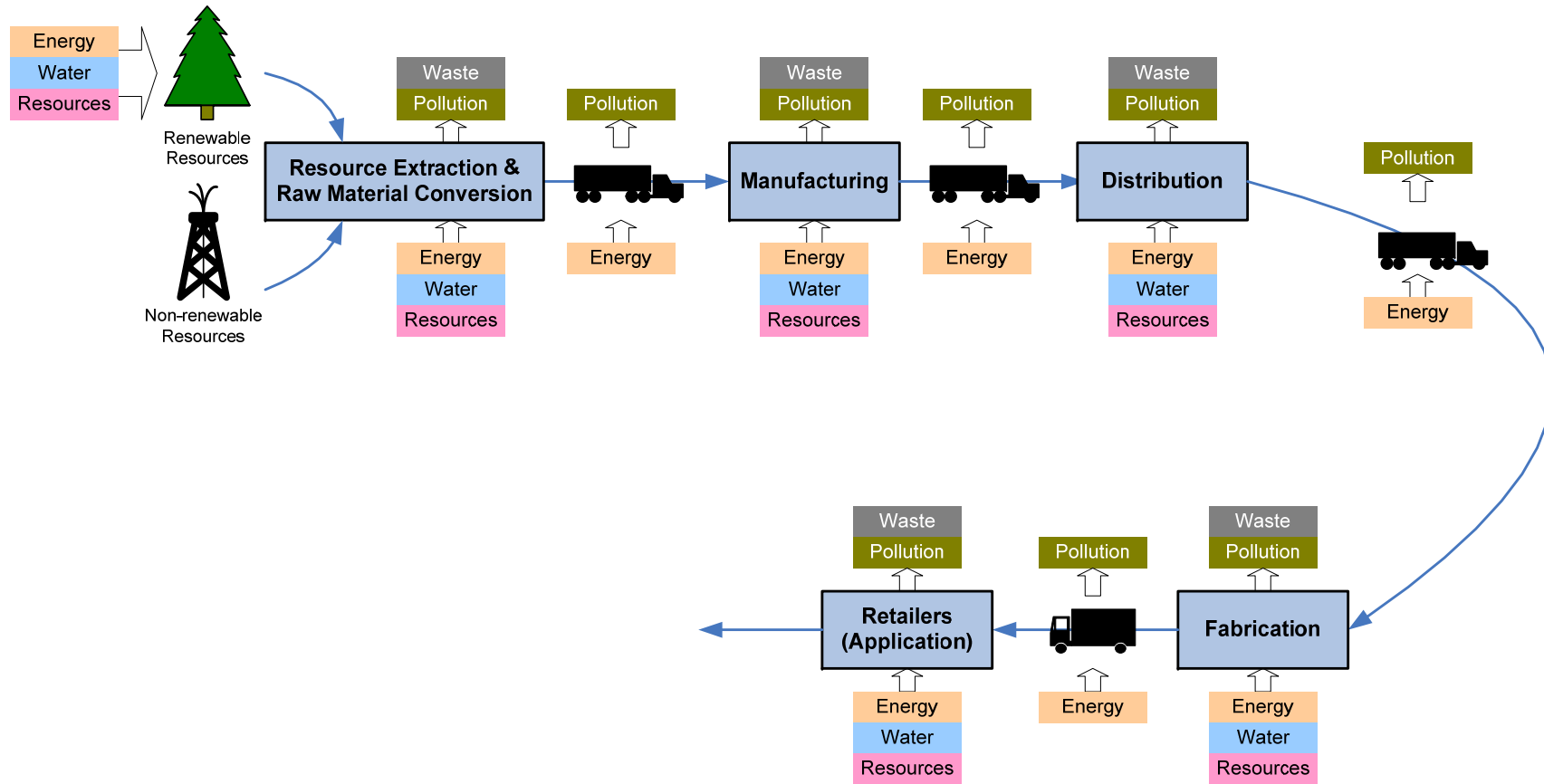
# LCA (Product Lifecycle Assessment)



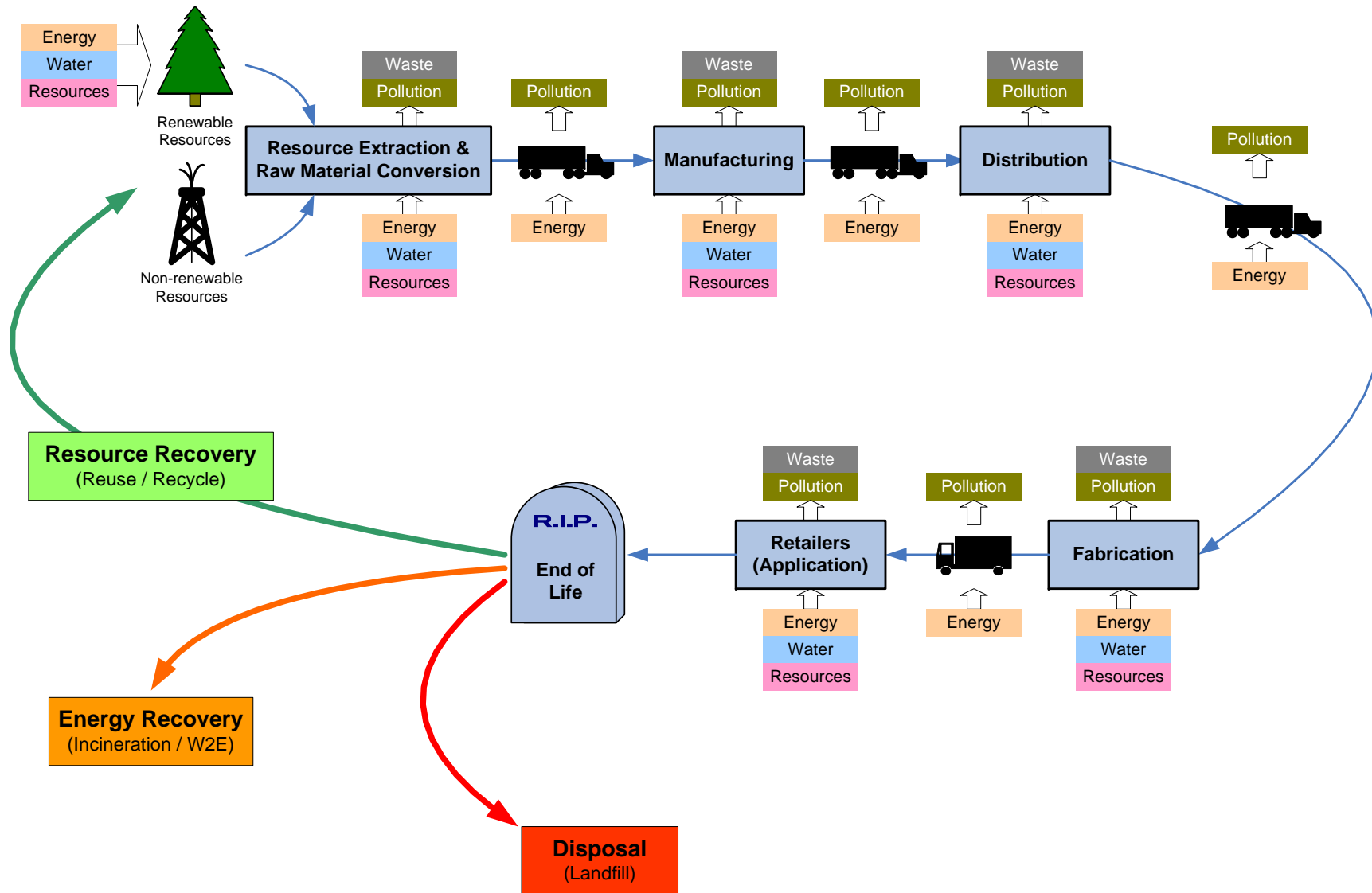
# LCA (Product Lifecycle Assessment)



# LCA (Product Lifecycle Assessment)



# LCA (Product Lifecycle Assessment)



# Our Commitment to Sustainability

- ❑ We must act responsibly on all **3Ps** of sustainability
- ❑ We focus on **Product** and **Process** best practices, from cradle to grave
- ❑ Our guiding principles are
  - **Conservation**
  - **Waste Minimization**
  - **Preservation**



# Our Sustainability Goals

Target Area	KPIs	Goals
<b>Water</b>	Water efficiency Water conservation	Minimize water usage Reuse/recycle used water
<b>Energy</b>	Energy efficiency Energy conservation	Minimize energy usage Alternative energy (renewable)
<b>Raw Materials</b>	Recycled content ASSET score	Minimize virgin material usage Alternative raw materials (less LCA footprint) No hazardous substances Optimize packaging
<b>Waste</b>	Waste to landfill (post-industrial) Product recycling (post-consumer)	Zero waste generated in production 100% of products recycled after use
<b>Emissions</b>	VOC Waste water	Zero VOC/GHG emissions All water treated/recycled
<b>Hazardous Substances</b>		Zero
<b>Transport</b>	Load efficiency (fill rate)	Full utilization of truck space Low weight materials (fuel efficiency)



# We appreciate your feedback

What is your view on Sustainability?

What is your approach to Sustainability?

What else could we do to improve?



E-mail to:  
[info.usa@3acomposites.com](mailto:info.usa@3acomposites.com)