

# Chapter 12: 12.02-12.05

## Inputs

- raw materials
- Energy
- water

Acquisition of Raw Materials

Processing, manufacturing and packaging

Transportation + Distribution

Construction, Use, + maintenance

Disposal  
Recycling + Reuse

• What impacts does the extraction, mining, or harvesting process have on health and the environment?

• Is the material renewable or non?

• Nonrenewable resources include metals + other minerals

• Renewable resources, as timber, vary in their rate of renewable, their rate of harvest shouldn't exceed their rate of growth.

• How much energy and water is required to process, manufacture, and package the material or product?

• Is the material or product available regionally / locally, or does it have to be shipped along distance?

• Does the material perform its intended function efficiently + effectively?

• How does the material affect the indoor air quality + energy consumption of a building?

• How durable is the material + how much maintenance is required for upkeep?

• What is the material's useful life?

## Outputs

- waterborne effluents
- Atmospheric emissions
- Solid wastes
- Other environmental releases