Life Cycle Assessment Group Project:

LCA Project: Overview

- **Background**
  - Your group is in charge of technology selection for a manufacturer or government agency purchasing
  - You have been asked to provide guidance on the environmental characteristics of some alternatives

- **Your task**
  - Select a set of products on which to perform a comparative LCA
  - Deliverable: 15-20 minute presentation
    - What is product and how is it processed?
    - Goal & scope
    - Inventory
    - Impact assessment
    - Recommendations
LCA Project Presentation Issues to Address

• Question:
  – What is the question you are trying to answer?
  – Who would the expected audience be?
  – What types of decisions would be made?
  – What challenges exist communicating to this audience?

• Goal & Scope
  – What is your functional unit?
    • How was it selected?
    • What alternatives are being considered?
  – What processing, use and disposal activities are included in your assessment?
  – Provide a flowchart of processing, use and disposal activities

• Inventory: Describe the inventory results
  – What are the largest emissions in terms of mass?
  – What are the largest material flows in mass?
  – How do processing, use and disposal compare?

• Impact Assessment: Describe the assessment results considering Cumulative Energy, EPS, and Eco-Indicator
  – What are the largest drivers of the result?
  – How do processing, use and disposal compare?

• Recommendations & Discussion
  – What would you recommend based on your assessment?
  – How comfortable are you with using these metrics to make decisions?
  – What would you expect to cause these results to change?
  – Limitations: Describe the limitations in your study -- I would like to see emphasis on this section.