

# Principles of Environmentally Sustainable Design

Fall Course - Class 7

# Final Assignment

Create a specification for a design project that outlines from a policy level to a material application the sources and uses of each material to be used in the specification. Explain why each material has been selected from a position of environmental responsibility, energy conservation, emissions management and quality for the sustainable life cycle.

You may pair into groups of 2 or 3 people to submit one paper.

The paper should be double spaced, 12 point font and have the names of the persons submitting the assignment and the class.

# Materials & Manufacturers

Creating a Map for a Sustainable  
Project and small carbon footprint

# Identifying Materials

- Characteristics
- Advantages / Disadvantages
- Proper Installation Requirements
- Special Installation Techniques
- General Maintenance and Conditioning

# Identifying Manufacturers

- Distance
- Product Cost
- Manufacturing Time
- Delivery
- Reliability
- Size & Ability to Maintenance
- Overall knowledge / Vision of Business Sector

# Challenges

- Logistics
- Labor
- Price
- Preparation / Training
- Access to Resources

# Response to Challenges

- On-site fabrication
- On-site training
- New manufacturing opportunities
- Hedging prices / logistics
- Connecting with workforce / labor agencies
- Community Resources

# Unexpected Outcomes

- New business
- Community benefits
- Additional Economic Stimulus / Impact
- Innovation

# City of Miami – Green Roof Project



# San Francisco – Fort Mason



# Agave Homes - Texas



# Green Hotel - Dubai

