Sustainable Design For Michigan

AIA Michigan/ACEC/MSPE
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Michigan Design Expertise

Michigan is home to many of our nation's largest and most technically sophisticated design firms.

What is Sustainability?

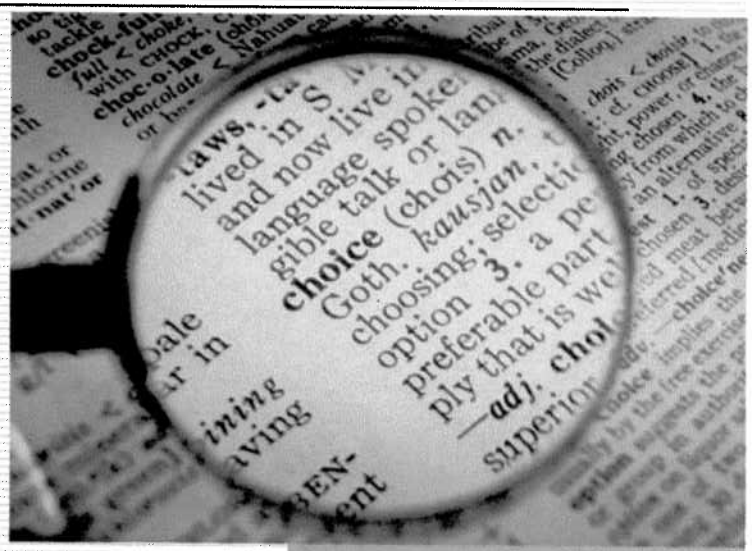
"meeting the needs of the present without compromising the ability of future generations to meet their own needs."

- U.S EPA

Enduring companies and their facility assets must be sustainable

"Green" Building Programs

- LEED
- Energy Star
- Green Globes
- Green Building Initiative
- Cradle to Cradle
- Green Star
- CASBEE



Buildings Today

U.S. Buildings account for:

- 76% of electricity consumption
- 39% of energy consumption
- 40% of greenhouse gas emissions
- 14% of potable water consumption
- 40% of raw material consumption

Next Generation Buildings

Average "green" building savings:

- 30% in energy consumption
- 35% in greenhouse gas emissions
- 40% in potable water consumption
- 70% in waste reduction

No cost increase for "green" buildings

"Green" Building Benefits

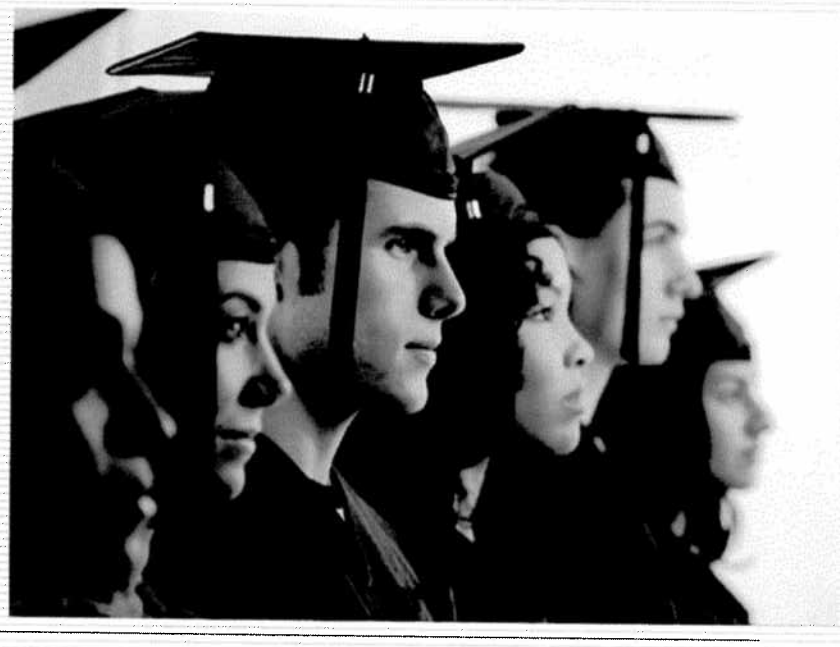
- Planet
  - Improved air and water quality
  - Conservation of natural resources
- Profit
  - Lower operating costs
  - Improved productivity
- People
  - Improved work environment
  - Reduced healthcare costs

Direct Impact to Michigan

- Job creation
- Reduced business cost
- Michigan branding
  - Connection to millennials

Job Creation

- Create new "green" jobs in Michigan
- Attract "green" businesses to Michigan
- Export Michigan expertise to other states

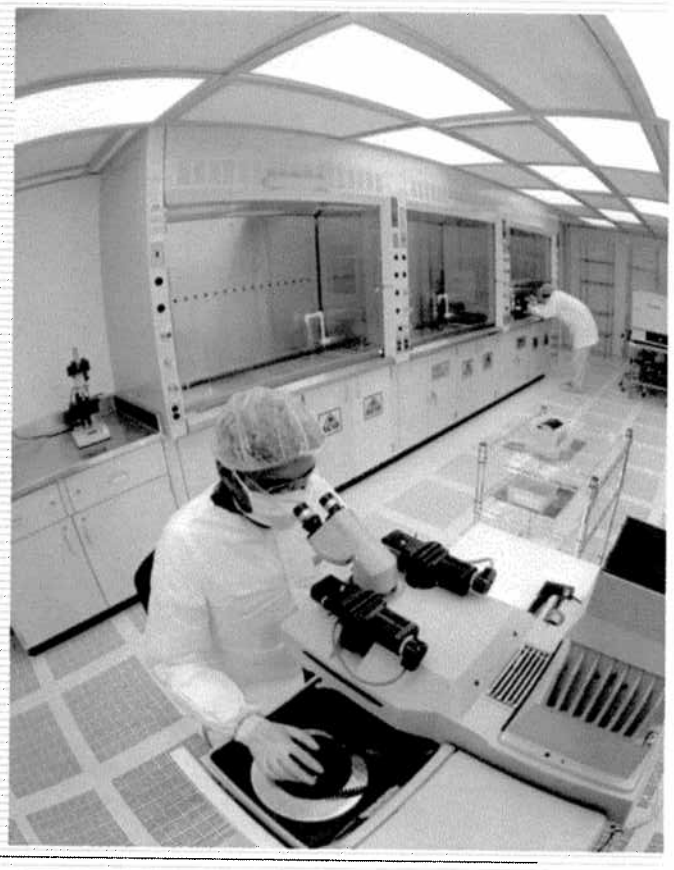
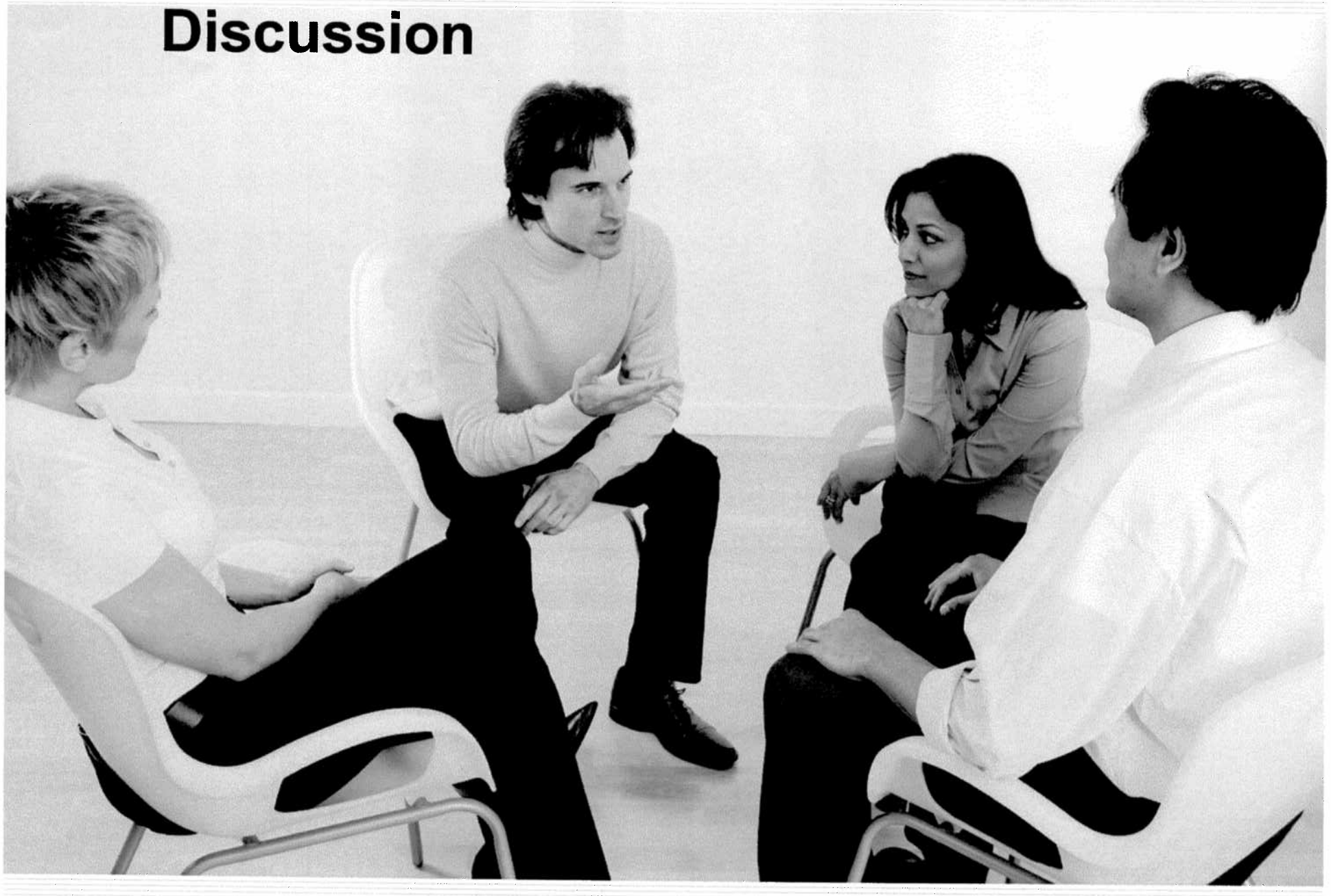


Reduced Business Cost

- Preserve utility company capacity
- Lower facility operating cost

Michigan Branding

- Positive post-auto image for Michigan
- Leverage technical expertise
  - Alternative energy
  - Life science
  - Education
- "Green" jobs appeal to millennials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