



International Centre for Advancement of Manufacturing Technology

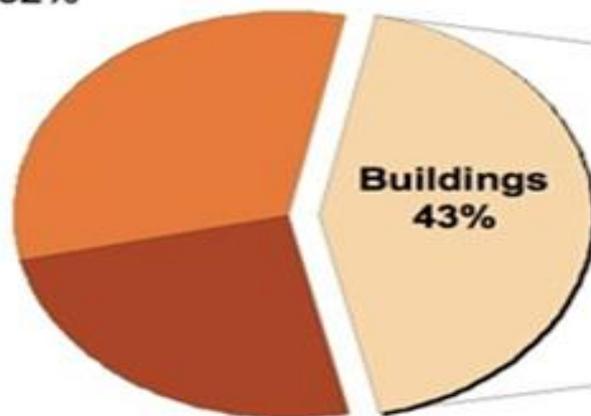
Sustainability

Green Construction Chemicals



Building contribution to CO₂ emissions

Transportation
32%



Residential
21%

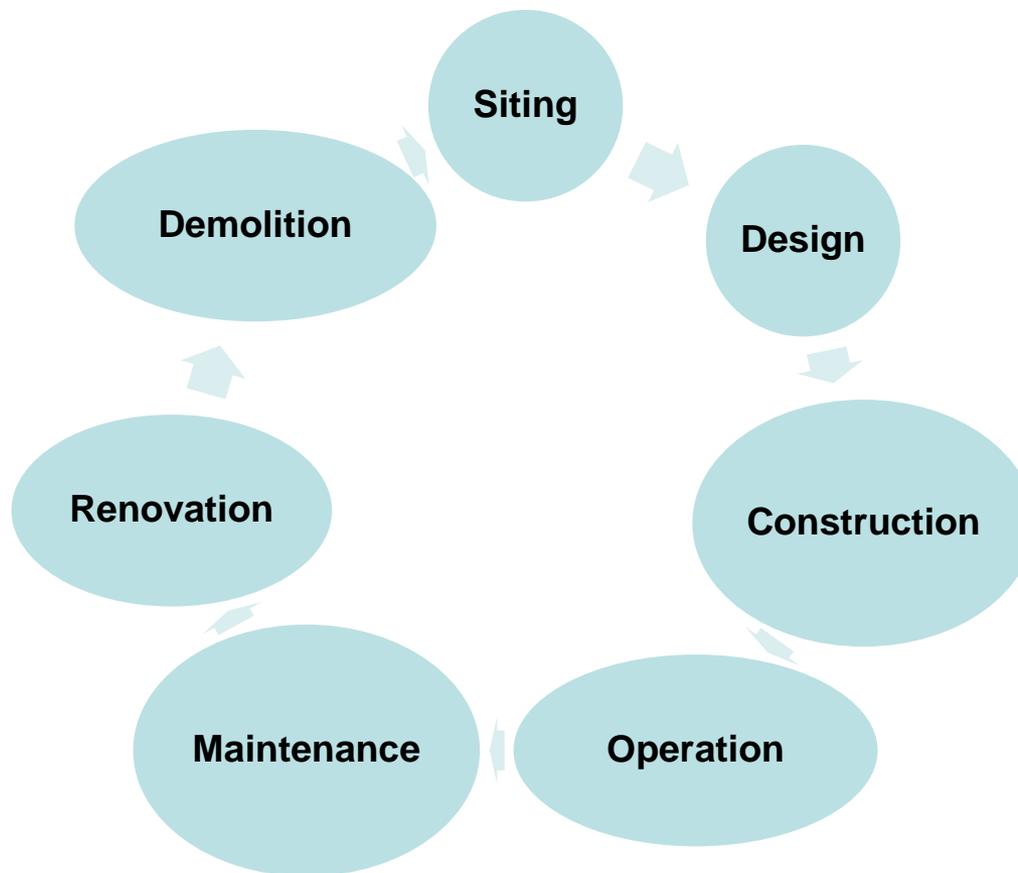
Commercial
17%

Industrial
5%

Industry 25%

Source: Pew Center on Global Climate Change

Life cycle of building products



Three main aspects to Green Buildings:

- Environmentally friendly construction materials
- Energy efficiency in buildings and construction
- Demolition waste management

Chemicals for Sustainable Construction used in..

- Exterior Coatings application
- Terrace waterproofing
- Repair
- Rehabilitation
- Flooring etc



Perceived Economic Benefit

- Greater Durability
- Higher revenues
- Lower lifecycle costs
- Lower operating costs
- Health benefits
- Compliance with new government regulation
- Meeting pressures from global competition



Major Challenges

- High cost of raw materials for a green building, 7% in comparison to that of a conventional building.
- Important green materials are not available indigenously and need to be imported
- Additional capital investment in the installation of a building management system (BMS) for proper control, monitoring and recording
- Skills shortage
- Lack of research and development in the area of Green Construction



Thank you!