

All phases of buildings from building design to construction, materials & operation - consume more energy than any other part of the U.S. **economy.** Building "green" means using materials & designs that are envirofriendly, sustainable & long-lasting. Many green buildings cost no more to build than traditional methods, and result in substantial savings for the owners because they use less energy & utilities.

15 Green Design & Construction Tips Residential & Small Commercial Buildings

For Energy and Water Efficiency

- 1. **Orientation** situate widest expanse of wall or roof facing south. Keep overhangs deep.
- 2. **Envelope** (the roof and walls) well sealed, plenty of insulation in wall, floors, attic, foundation. Light colored cool roofs.
- 3. **Properly sized heating and cooling equipment** no bigger than needed. Include systems like geothermal and solar heaters. Use programmable thermostats.
- 4. **Efficient water heating** solar water heating, on-demand water heating, or efficient standard water heaters.
- 5. **Energy efficient appliances and equipment** Energy Star® certified appliances and computer. Energy saving equipment and fixtures
- 6. **Duct sealing** ducts in sealed envelope
- 7. **Efficient windows** operable to allow ventilation, low-e (allows light but not heat to pass), use insulated windows
- 8. **Lighting** compact fluorescent, LED, and day lighting (using natural sunlight), motions sensors or timers. Use lighter colors to reflect light
- 9. **Building materials** local building materials, recycled materials, and non-toxic materials. Local Mississippi products include: southern yellow pine lumber, concrete, brick, structural insulated panels (SIPs).
- 10. **Efficient water use** water efficient faucets, shower heads, toilets, dishwasher, and washing machine

For Superior Interior Environment

- 11. **Indoor air quality** low- or no-VOC paints, finishes, adhesives. materials and cleaners
- 12. **Interior noise** —noise dampening ducts and isolation system
- 13. Use Sustainable Resources Recycled/reused materials

For Reduced Building Maintenance

- 14. **Landscaping** —native plants that don't require watering or mowing, shade trees, water absorbing plants that reduce the load on storm sewers, rainwater harvesting
- 15. **Parking lots/driveways** design vegetation and shade areas, use permeable or recycled pavement options

