

## Green Design



In keeping with Volusia County's commitment to the environment, the Deltona Regional Library, Lyonia Environmental Center, and Deltona Amphitheater were built using green building standards and practices. The building expansion, completed in October 2009, received LEED Silver Certification, verifying that the expansion is environmentally responsible and a healthy place to work. LEED, which stands for Leadership in Energy Efficiency and Design, is an internationally recognized certification for "green" buildings. LEED certified buildings pay special attention to saving energy and water, reducing carbon dioxide emissions, improving indoor environmental quality, and the responsible stewardship of resources. Since the expansion, the library's energy costs have dropped 22 percent.

The expansion featured high-grade insulation, an energy-efficient heating and air-conditioning system, automatic water faucets, and environmentally friendly wood construction materials certified by the Forest Stewardship Council. Also, the paints, adhesives, carpet, flooring and other products are low in **volatile organic compounds (VOCs)** to improve indoor air quality. VOCs are chemicals that evaporate or become gases at room temperature. This process is known as **off-gassing** and may affect the health of building occupants.

Other green features of the LEC include:

- Revolving doors at the entrances that reduce loss of heating and air-conditioning
- Energy-efficient bulbs and motion sensors that turn off lights when rooms are unoccupied
- Pervious concrete in the amphitheater to promote natural recharge of the aquifer
- Florida-friendly landscaping that uses native plants and Bahia grass
- A Votran bus stop at the front door