



Sustainable Building Design

Lederach Associates, Architects + Engineers

three generations two professions one company

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What is Sustainable Building Design

Sustainable architecture, seeks to minimize the negative impact of a building on the environment by increasing efficiency and moderation in the use of materials, energy, and space while connecting people to their natural surroundings.

Sustainable design practices have influenced our projects since the early 1980's. Utilizing simple straight forward design principals we can achieve building designs that have a lower impact on the environment and save the owner in maintenance and operating costs throughout the lifecycle of the building.

Design Principles

These simple straight forward design principals include building orientation, daylighting, and energy efficiency have been the foundation of our approach to sustainable design.

Since a large percentage of the energy used during the lifecycle of a building is for heating and cooling we have focused on developing and engineering geothermal system that greatly reduces the energy required to heat and cool buildings.

Complete Design Integration

Having both ARCHITECTS and ENGINEERS under one roof has provided us with an advantage in coming up with a completely integrated building design. Lederach Associates understands the interrelationships of all building systems and materials. With both professions working together closely in the same office we can optimize all elements of the design through complete integration resulting in a cost effective and high performance 'green' building.

Owner Benefits

Lower energy costs
Lower maintenance and operating costs
Enhance building marketability
Increased worker productivity
Improved indoor air quality

Projects

Buildings we have design incorporating sustainable design principles:

- Church of the Holy Spirit, Harleysville, Pennsylvania
 - Independent Living Cottages at Souderton Mennonite Homes, Souderton, Pennsylvania
 - Lower Salford Township Administration Offices & Police Department, Harleysville, Pennsylvania
 - Skippack Township Administration Building and Community Center, Skippack, Pennsylvania
 - Hatfield Township Administration Building, Hatfield, Pennsylvania
 - Rosenberger Academic Center for Christopher Dock Mennonite High School, Lansdale, Pennsylvania
 - Art Center for Christopher Dock Mennonite High School, Lansdale, Pennsylvania
 - Skilled Nursing Facility for Elm Terrace Gardens, Lansdale, Pennsylvania
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