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# Green Development and Construction Program

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The Waste Management & Research Center (WMRC) has developed a Green Development and Construction Program. The program offers environmental assistance and education to Illinois developers and builders of residential, commercial, and industrial facilities. The program addresses workable, cost-effective, sustainable construction alternatives through a variety of services provided by WMRC's staff of trained engineers and scientists as well as partner organizations.

The Program's Mission is to be a resource for environmentally sustainable construction and development. As a resource, WMRC will provide information and technical assistance on issues such as lighting and energy management, pollution prevention, waste management, and process efficiency. Residential and commercial designers, builders, realtors, private citizens, and manufacturers of building materials can utilize this resource. WMRC will partner with public and private agencies to support the Illinois' Energy Conservation Code (IECC) and the design and construction of sustainable buildings in Illinois.

**Core Values** of the program include:

- Providing knowledge about green building concepts and principles
- Addressing construction waste management and recycling issues

- Identifying markets for recycled construction materials,
- Forming partnerships with other change agents to increase the comfort level of builders and designers regarding green construction
- Identifying and address green building market failures
- Providing education about green building and design awards programs
- Working with Illinois building material's manufacturers to promote green products
- Promoting high quality construction through best management practices
- Providing regulatory information and assistance regarding construction activities

**Program Services** include:

- Green Building - WMRC engineers will assist developers and builders in the consideration of sustainable building alternatives through the use of technologies such as solar, wind, and geothermal systems. These can be considered along with the building site, landscaping, construction materials, and reuse of demolition material. WMRC can also help developers and builders find the right partners to work with when implementing green building practices.

- Waste Management Planning - WMRC will assist clients to identify the components of jobsite waste streams and understand the conditions affecting waste management decisions.
- Construction and Demolition Waste - WMRC can help builders find viable sources for recycling construction waste, establish job-site recycling programs, or find waste disposal firms that offer unique construction waste contracts.
- Sustainable Energy - WMRC engineers are Certified Energy Managers (CEM) capable of assessing the effective use of energy to reduce costs, and improve competitiveness. An Energy Assessment focuses on reducing energy usage and developing methods to monitor, measure, report, and manage energy consumption. WMRC can also help existing facilities such as schools, office buildings, and job shops with lighting requirements through an assessment of current lighting systems and by providing information on energy efficient lighting systems.
- Regulatory Issues - WMRC engineers are versed in both federal and state environmental regulations pertaining to various industries including the construction industry. WMRC can assist developers and builders to ensure that all environmental requirements are met including air, water and land permits and waste management planning.
- Environmental Management System (EMS) - WMRC can provide implementation assistance to enable companies to qualify for certification to the ISO 14001 International Standard on Environmental Management Systems. WMRC has fully developed programs to enable large or small organizations to design and implement an EMS.  
[http://www.wmrc.uiuc.edu/main\\_sections/tech\\_assist/env\\_man\\_systems.cfm](http://www.wmrc.uiuc.edu/main_sections/tech_assist/env_man_systems.cfm)

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