

SAVE MONEY?

By implementing green strategies at home, you are helping the environment and saving money at the same time. Here are some sites that have information about green strategies at home:

Water Conservation
<http://wateruseitwisely.com>

Indoor Air Quality
<http://greenguard.org>

Efficient Lighting
<http://energy.gov/energysaver/articles/tips-lighting>

WHY BUILD GREEN?*

The built environment has a vast impact on the natural environment, human health, and the economy. By adopting green building strategies, we can maximize both economic and environmental performance. Green construction methods can be integrated into buildings at any stage, from design and construction, to renovation and deconstruction. However, the most significant benefits can be obtained if the design and construction team takes an integrated approach from the earliest stages of a building project. Potential benefits of green building can include:

Environmental benefits

- Enhance and protect biodiversity and ecosystems
- Improve air and water quality
- Reduce waste streams
- Conserve and restore natural resources

Economic benefits

- Reduce operating costs
- Create, expand, and shape markets for green product and services
- Improve occupant productivity
- Optimize life-cycle economic performance

Social benefits

- Enhance occupant comfort and health
- Heighten aesthetic qualities
- Minimize strain on local infrastructure
- Improve overall quality of life

*from U.S. Environmental Protection Agency

WANT TO FIND OUT MORE?

Orange County Community Resource Green Building Coordinator

email: greenbuilding@ocparks.com
www.ocparks.com/about/projects/sustainability

Other Green Building Resources

U.S. Green Building Council
www.usgbc.org

Leadership in Energy and Environmental Design (LEED) Rating System
www.leedbuilding.org

California Integrated Waste Management Board
Green Building Design and Construction
www.ciwmb.ca.gov/Greenbuilding

California Energy Commission
www.energy.ca.gov

Consumer Energy Center (CEC)
www.consumerenergycenter.org

Whole Building Design Guide
www.wbdg.org

Sustainable Buildings Industry Council (SBIC)
www.sbicouncil.org

Green Building - U.S. Environmental Protection Agency (EPA)
www.epa.gov/greenbuilding

LEED Certified Building: Irvine Regional Park Maintenance Yard Office Building



green building design



OC Parks was established by the people of the County of Orange to preserve the natural, cultural and historic resources of Orange County for the recreation, education and inspiration of all visitors. Especially you.
 Courtesy of the County of Orange Board of Supervisors

ocparks.com



twitter.com/OC Parks



www.facebook.com/OrangeCountyParks



OC PARKS' FIRST LEED BUILDING

It is only fitting that Orange County's first park would also be home to the park system's first LEED Certified building. Sustaining the Regional Park's unique beauty into perpetuity requires a massive maintenance effort that is led by a team of dedicated, well trained maintenance personnel. To match the level of commitment put forth by the parks maintenance staff, it was decided that a first-class maintenance yard and office building would be constructed to replace functionally obsolete structures, many of which were over 60 years old. Once it was decided that a new maintenance yard would be constructed, obtaining a LEED Certification became an obvious choice to ensure that the new facility would be water and energy efficient, would be constructed out of sustainable materials, that the natural setting would be considered and honored, and that the indoor environment would promote optimum efficiency from the employees. An integrative design approach was adapted to ensure that the finished product is a structure that the park system will be proud of for decades to come.



LEED CERTIFICATION*

LEED, or Leadership in Energy and Environmental Design, is redefining the way we think about the places where we live, work and learn. As an internationally recognized mark of excellence, LEED provides building owners and operators with a framework for identifying and implementing practical and measurable green building design, construction, operations and maintenance solutions.

LEED certification provides independent, third-party verification that a building, home or community was designed and built using strategies aimed at achieving high performance in key areas of human and environmental health: sustainable site development, water savings, energy efficiency, materials selection and indoor environmental quality.

*from US Green Building Council

SITE & LAND USE



- Control erosion to reduce pollution in water and air quality.
- Avoid developing on unsuitable sites (wetlands, agricultural land, greenfields, etc.)
- Reduce heat island.
- Maximize vegetated open space.

WATER EFFICIENCY



- Water-efficient plumbing fixtures and appliances, such as low-flow toilet fixtures and waterless urinals.
- Water-efficient landscaping with drought tolerant plants and water-efficient irrigation system.
- Use non-potable water for irrigation.
- Reduce water usage by 30% or more of baseline.



HEALTH & SAFETY

- Practices that discourage mold, dust and mites for example, install walk-off mats to capture dirt and prevent particulates from entering the building.
- Materials, paints and finishes that emit no or low toxic fumes.
- Effective ventilation to promote healthy indoor air quality.

MATERIALS AND WASTE



- Use of recycled, re-used, local materials.
- Storage and collection of recyclables.
- Use of rapidly renewable materials.
- Use building materials from sustainable source.



INDOOR ENVIRONMENTAL QUALITY

- Increased ventilation to promote healthy indoor air quality.
- Use low emitting materials, paints and finishes that have no or low volatile compounds.
- Provide bicycle racks and alternative-fueled vehicles for employees to promote healthier air quality.

ENERGY EFFICIENCY



- Use of energy-efficient appliances and electrical fixtures.
- Natural daylight in every room to conserve electricity by providing windows in each room.
- Use of light-colored reflective roof to reduce cooling load, reflect heat source.
- Use zero CFC to reduce ozone layer depletion and greenhouse gas emissions.