



SAINT LOUIS ZOO ANIMAL NUTRITION CENTER St. Louis, MO

51% reduction in potable water
use over baseline

89% of construction waste
diverted from landfill

LEED® Facts

SAINT LOUIS ZOO ANIMAL
NUTRITION CENTER
St. Louis, MO

LEED for New Construction
Certification awarded April 11, 2008

Silver 34*

Sustainable Sites 7/14

Water Efficiency 4/5

Energy & Atmosphere 3/17

Materials & Resources 7/13

Indoor Environmental Quality 10/15

Innovation & Design 3/5

**Out of a possible [69] points*

The information provided is based on that stated in the LEED® project certification submittals. USGBC and Chapters do not warrant or represent the accuracy of this information. Each building's actual performance is based on its unique design, construction, operation, and maintenance. Energy efficiency and sustainable results will vary.

SAINT LOUIS ZOO ANIMAL NUTRITION CENTER

Eating Green, Building Green

PROJECT BACKGROUND

The William R. Orthwein and Laura Rand Orthwein Animal Nutrition Center serves as the central hub for animal nutrition and research at the Saint Louis Zoo. The ground floor of this building has 4 primary components: Food Preparation, Food Storage (freezer/cooler and dry) Nutrition Laboratory and Offices. The lower level is designed to fulfill a variety of needs for the Zoo, including offices and educational spaces. The building has been designed to allow visitors to follow the preparation of food for the zoo animals by incorporation of signage, docent lead tours and viewing areas into the Food Prep and Lab areas.

STRATEGIES AND RESULTS

Built on one of the last Greenfield sites available on the St. Louis Zoo grounds, this project needed to serve the Zoo's needs for a high tech facility that also enlightened the public about animal nutrition all while minimizing the environmental footprint of the facility to uphold the conservation mission of the Zoo and serve as a sustainable role model for both the public and other organizations.

These multiple goals were achieved through a comprehensive strategy that oriented the building to maximize natural light while minimizing heat gain and integrated the site into the building energy and water management. A green roof covers a large portion of the building serving as a habitat for birds and insects while also providing energy savings to the building (a portion of the building operates as earth-sheltered). Very high efficiency plumbing fixtures and native vegetation minimize the water footprint of the facility.

All of these features are highlighted to visitors on signage as they are drawn from one of the higher trafficked paths up to the high profile site. Visitors can overlook the green roof, native plant species are noted, and diagrams of the interior elucidate the less apparent sustainable aspects of the project.

ABOUT SAINT LOUIS ZOO

The Saint Louis Zoo is one of the top rated Zoos in the world. Through the WildCare Institute and Animal Nutrition Center, the Zoo is making an impact on the conservation of threatened and endangered wildlife of the world. Without a solid understanding of the food consumed by animals in their native habitats, the study and husbandry of endangered species is problematic at best. Through the careful study of nutrient resources available in locations around the globe, the Animal Nutrition Center plays an important part in efforts to protect and restore the delicate balance of the natural world. Together, the WildCare Institute and the Animal Nutrition Center enhance the Saint Louis Zoo's role as a significant contributor to global conservation.

"In the decades to come, this is the building by which all other efforts in Zoos around the world will be measured"

Jeffrey P Bonner, Ph.D.,
President and CEO
Saint Louis Zoo



Architect: Fox Architects
Civil Engineer: Farnsworth Group
Commissioning Agent: CxE Group
Contractor: Hankins Construction
Interior Designer: Fox Architects
Landscape Architect: SWT Design
MEP Engineer: William Tao & Associates
Owner: St. Louis Zoo
Structural Engineer: KPFF Consulting Engineers

Photographs Courtesy of: Hedrich Blessing and Fox Architects

About USGBC- Missouri Gateway Chapter

USGBC is the nation's foremost coalition of leaders from across the building industry. Missouri Gateway Chapter members represent all segments of the building industry and work together to promote buildings that are environmentally responsible, profitable, and healthy places to live and work.

