



**ROSA PARKS
ELEMENTARY SCHOOL
PORTLAND, OREGON**

24% reduction in energy use

31% of building materials
manufactured regionally

97% of construction waste diverted
from the landfill

LEED® Facts

Rosa Parks Elementary School
Portland, Oregon

LEED for New Construction
Certification awarded August 30, 2007

Gold 42*

Sustainable Sites	11/14
Water Efficiency	2/5
Energy & Atmosphere	6/17
Materials & Resources	6/13
Indoor Environmental Quality	12/15
Innovation & Design	5/5

*Out of a possible 69 points



ROSA PARKS ELEMENTARY SCHOOL

Rosa Parks Earns LEED Gold

Portland Elementary School Provides a Healthy, Environmentally Friendly Learning Environment

PROJECT BACKGROUND

Home to nearly 500 K-6 students, Rosa Parks School opened in North Portland, Oregon, in time for the 2006-2007 school year and earned a LEED Gold rating in August 2007. The 67,000-square-foot school is arranged in quadrants, each of which houses five classrooms, a resource room and other support areas organized around a central “neighborhood commons.”

COMMUNITY CONNECTION

Rosa Parks School has been a revitalizing force for its neighborhood. Financed with tax credits designed to encourage development in underserved areas and built on land donated by the Housing Authority of Portland, the school is located in Portland’s New Columbia Community Campus, a public-private partnership that includes a Boys and Girls Club and a community center in addition to the school. The Boys and Girls Club shares the school’s art, music, and computer resources, and the larger community uses the school’s library.

STRATEGIES AND RESULTS

The 2.4-acre site is within walking distance of two bus lines, while bike racks and showers expand the commuting options for staff. Native, drought-tolerant vegetation adorns the three-quarters of an acre of open space, which cuts down on the use of drinkable water and upkeep of the landscape. Trees preserved during construction provide shade to the site while preventing erosion. The project is anticipated to reduce irrigation needs by 60% and total water use by 24%, compared with a conventional school.

The school’s energy-saving strategies—including extensive daylighting through skylights and operable windows, lightshelves, daylight sensors, extra insulation and an efficient condensing gas boiler—were expected to reduce energy use by 24%, compared with a comparable project designed in minimal compliance with ASHRAE Standard 90.1-1999. The project also features a 1.1-kilowatt demonstration photovoltaic system and a kiosk showing the system’s real-time electricity production allowing students at Rosa Parks to learn about alternative energy first hand.

The project team employed several strategies to protect the school’s indoor environmental quality. All air-handling equipment was sealed during construction, and the contractor conducted a two-week flushout before the school opened. Carbon dioxide monitors in all classrooms activate the displacement ventilation system when fresh air is required. Paints, carpeting, adhesives and sealants were selected for their low chemical emissions, and the school has implemented a green cleaning plan and an integrated pest management program.

The project team selected materials for their environmental characteristics. In all, 31%, by cost, were manufactured within 500 miles of the project site; of these, 61% were made with raw materials harvested or extracted within the same radius. A construction waste management plan diverted 97% of all construction waste, by weight, from the landfill.

ABOUT PORTLAND PUBLIC SCHOOLS

Portland Public Schools serves 47,000 students, from pre-K through 12th grade, at 85 regular school buildings as well as at alternative schools, charter schools and other facilities for students with special needs.

“The green framework not only reduced operational expenses and provided a healthier school environment but complemented and supported the educational mission of the school, which was the primary goal.”

John Weekes, AIA, Dull Olson Weekes Architects, Inc.



Architect: Dull Olson Weekes Architects, Inc.
General Contractor: Walsh Construction
Civil Engineer: KPFF Consulting Engineers
Sustainability Consultant: Green Building Services
Mechanical and Plumbing Engineer: Mazzetti & Associates
Structural Engineer: ABHT Structural Engineers
Landscape Architect: Atlas Landscape Architecture
Acoustic Consultant: SSA Acoustics
Food Service Consultant: Halliday & Associates

Project Size: 66,863 ft²
Total Project Cost: \$18,000,000
Cost per square foot: \$269

Photograph Courtesy of: Gary Wilson Photo/Graphic

ABOUT LEED

The LEED® Green Building Rating System™ is the national benchmark for the design, construction, and operations of high-performance green buildings. Visit the U.S. Green Building Council’s Web site at www.usgbc.org to learn more about LEED and green building.



www.usgbc.org
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