



TONY HILLERMAN MIDDLE SCHOOL ALBUQUERQUE, NM

30% in energy savings

43% in water savings

This project recycled **88%**
of construction waste.

LEED® Facts

Tony Hillerman Middle School
Albuquerque, NM

LEED for Schools
Certification awarded September 7, 2010

Gold 47 pts awarded*

Sustainable Sites	11/16
Water Efficiency	4/7
Energy & Atmosphere	8/17
Materials & Resources	5/13
Indoor Environmental Quality	15/20
Innovation & Design	4/6

*Out of a possible 79 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.



TONY HILLERMAN MIDDLE SCHOOL

Green Learning for the Next Generation

Design/Build Team Achieves LEED Gold

PROJECT BACKGROUND

Tony Hillerman Middle School is a new 170,000sf public middle school designed for 1,200 students, and is part of the Albuquerque Public School (APS) district. In addition to being APS's first design-build project, the school was built using a fast track process that allowed design and construction of this very large school to be completed in just 19 months. Contractor Bradbury Stamm and architect Dekker/Perich/Sabatini worked together from the beginning, and created multiple drawing packages to allow construction to begin while design was still underway. The team also took advantage of the City of Albuquerque's Green Path program's integrated design review to expedite the permitting process.

STRATEGIES AND RESULTS

The school was planned as two separate buildings to maximize daylight and views, allow community access, and minimize excavation into the basalt rock layer that runs throughout the site. All excavated basalt boulders were reused onsite. Landscaping was designed to reduce water consumption by 56%, and low-flow plumbing fixtures reduce indoor water use by 43%. Over 88% of construction waste materials were reused or recycled, saving over 2,328 tons of materials from landfill. Building materials were selected to have recycled content, be produced within the region, and/or be low-emitting to protect indoor air quality.

The school was designed to use 30% less energy than a baseline building, and has already achieved the "Designed to Earn the ENERGY STAR designation" from EPA. The building envelope saves energy through increased insulation in the walls and roof, a reflective roof membrane, and efficient low-e glazing shaded by horizontal overhangs to harvest daylight while controlling heat gain. Most of the campus utilizes centralized hot water/chilled water systems with variable air volume, which also takes advantage of "free" cooling using outside air economizers.

The design focused on daylight, views, and air quality to create a great learning environment. Aircuity's OptiNet system was installed in all classrooms. By measuring CO2 and other air contaminants, OptiNet uses demand control ventilation strategies to save energy and provide good air quality. Occupancy sensors in classrooms turn off lighting when the rooms are unoccupied. Over 75% of spaces have high levels of daylighting, and over 90% of spaces have direct views to the outdoors. Teachers use the building's features and "Saving Energy: Learning and Conserving" curriculum kits provided by PNM to incorporate sustainability into the curriculum.

ABOUT THE TEAM

Albuquerque Public Schools (APS) is the largest school district in New Mexico. www.aps.edu

Bradbury Stamm provides design-build services, construction management, and LEED and green building practices to provide support to the project and client to make every project a success. www.bradburystamm.com

With offices located in New Mexico, Nevada and Texas, Dekker/Perich/Sabatini provides architecture, interior design, landscape, planning and engineering services to public and private clients. www.dpsdesign.org

"Everyone wins on this project – most importantly the students who can acquire knowledge in an environment designed for learning, but also the taxpayers and residents who save on utility costs and benefit from a reduced energy footprint."

Karen Alarid,

Director of Facilities Design + Construction



Architect: Dekker/ Perich/ Sabatini
General Contractor: Bradbury Stamm
MEP Engineer: Bridgers & Paxton
Mechanical Contractor: Yearout Mechanical
Electrical Contractor: DKD Electric
Civil Engineer: High Mesa
Structural Engineer: Dekker/Perich/Sabatini
Commissioning Agent: TestMarc
Landscape Architect: Sites Southwest
LEED Consultant: Dekker/Perich/Sabatini
Owner: Albuquerque Public Schools
Project Size: 170,000sf

Photographs Courtesy of: Chas McGrath and Travis Lewis

ABOUT CHAPTER

The USGBC - NM Chapter is a local non-profit with a mission: to transform our built environment through education, collaboration and outreach, to promote environmentally responsible practices that are economically and socially beneficial to the community.



www.usgbcnm.org
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