



# CIBOLO GREEN ELEMENTARY SCHOOL

**80%** of wood used is FSC certified

**30%** savings in energy costs and water usage

Attendance Rate **97.1%** currently highest in the district

## LEED® Facts

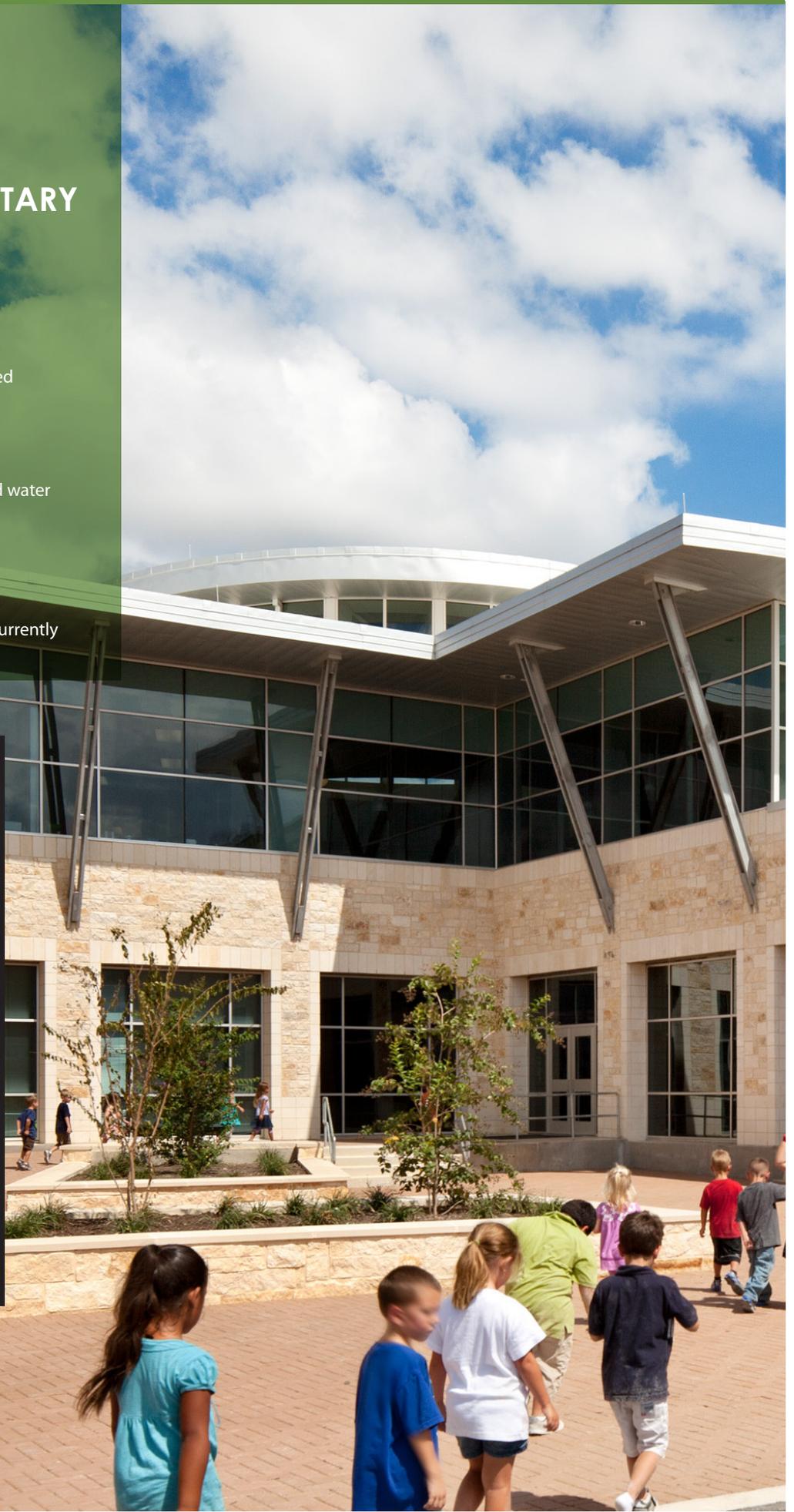
Cibolo Green Elementary School  
San Antonio, TX

LEED for Schools V2.0  
Certification awarded Feb, 28, 2011

<b>Gold</b>	<b>46*</b>
Sustainable Sites	9/16
Water Efficiency	3/7
Energy & Atmosphere	9/17
Materials & Resources	6/13
Indoor Environmental Quality	13/20
Innovation & Design	6/6

\*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.



## CIBOLO GREEN ELEMENTARY SCHOOL

# A sustainable environment for learning

## Achieving excellence and efficiency

### PROJECT BACKGROUND

Cibolo Green Elementary School is North East Independent School District's first LEED for Schools project. It is a new two-story, 122,600 square-foot school constructed in a rapidly growing residential area in north San Antonio. The school was designed with a classroom capacity for 1,000 students and a core capable of supporting 1,200 students. This project achieved a USGBC Gold Rating. The design team, along with North East Independent School District, shaped their vision of a "green school" around improving the quality of life for students and faculty, utilizing sustainable practices to reduce operating cost, creating educational programs to highlight environmental impacts, emphasizing the selection of local materials and responding to the need for a new school in the area.

### STRATEGIES AND RESULTS

The design team made great efforts to address concerns related to sustainable practices and reducing overall energy costs. Some of the sustainable design elements include high efficiency mechanical systems, water-conserving plumbing fixtures, appropriate glass for day-lighting strategies, and open space preservation. In an effort to educate staff and visitors, design elements such as a preferred parking area for low-emitting and fuel-efficient vehicles were created as well as recycle collection areas for use by the school and the community. In an effort to reduce future impact on the site, the district master planned the site for future expansion.

The improvements to the envelope include 100% coverage of the schools roof with ENERGY STAR qualified roofing providing an SRI 100. All exterior glazing is low-E insulated glass that further reduces the size of the HVAC system.

The school addresses water efficiency by utilizing all Low-Flow lavatories, sinks, kitchen sinks and water efficient appliances. All landscaped areas feature plant species adapted to this area.

Low VOC paints, adhesives, sealants and furniture is used throughout the project. The outside air volume is delivered to each occupied space. In areas that are served by variable air handling units, outside air is brought in through airflow measuring stations and mixed with return air in a central station air handling unit. Every regularly occupied space is equipped with thermostat to adjust the temperature.

North East Independent School District is already seeing the results of their "green school" efforts. Energy costs and water usage have shown a 30% savings compared to other elementary schools in the district. Student performance and attendance rates are currently the highest in the district. Results like these have led to the district-wide implementation of LEED for Schools for all new buildings

### ABOUT CIBOLO GREEN ELEMENTARY SCHOOL

North East Independent School District strives to continually create better learning environments for their students and provide teaching areas to increase faculty satisfaction and retention. The district has focused on promoting the quality of life for its students and faculty through district-wide implementation of various programs such as a green cleaning program and an award-winning indoor air quality (IAQ) management plan. Both of these initiatives have shown drastic improvement in overall occupant health, increasing attendance and decreasing sick days. Cibolo Green Elementary School is also the first completely "green" campus in the district with regard to its janitorial and maintenance efforts, by using exclusively sustainable cleaning products and equipment. The staff was extensively trained in reducing the use of chemicals for pest control and keeping toxin levels on campus to a minimum.

"A green school is special because it's nice to take care of the Earth and I mean... its where you live, what are you going to do with it, take care of it..."

Cibolo Green Student



Owner: North East ISD  
 Architect: Pfluger Associates Architects  
 Civil Engineer: Pape-Dawson Engineers, Inc.  
 Commissioning Agent: Testing Specialties, Inc.  
 Contractor: Satterfield & Pontikes Construction, Inc.  
 Landscape Architect: Cooper-Lochte Landscape Architecture, LLC  
 LEED Consultant: Sustainable Perspectives Group, LLC  
 Lighting Designer: MEP Engineering, Inc.  
 MEP Engineer: MEP Engineering, Inc.  
 Structural Engineer: Alpha Consulting Engineers, Inc.

Project Size: 122,600 Sq. Ft.  
 Total Project Cost: \$33,216,995  
 Cost Per Square Foot: \$221/Sq. Ft.

Photographs Courtesy of: Chris Cooper

### 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 website to learn more.



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