



# DESERT EDGE HIGH SCHOOL

Goodyear, Arizona

Desert Edge High School is the first public school building to earn Silver certification in Arizona. The 90,620 SF building is 28% more energy efficient than a standard design, saving the school district about \$58,000 annually in energy costs. The project design achieves 38% potable water savings and 84% of construction waste was diverted from the landfill. Over a twenty year period the district will save over \$1,235,000 in tax dollars on heating, cooling and water costs alone due to the high-performance building design. In addition, the Desert Edge High School expansion project was completed four weeks ahead of schedule and \$450,000 under budget. It has been the winner of Valley Forward's 26th Annual Environmental Excellence Award and Southwest Contractor's Best of 2006 Arizona award for "Green Building: Public Projects."



**OWNER**  
AGUA FRIA UNION HS DISTRICT

**ARCHITECT**  
EMC2 GROUP

**CONTRACTOR**  
ADOLFSON & PETERSON

## SUSTAINABLE STRATEGIES

- Lobby features an interactive touch-screen to teach visitors about the sustainable features of the facility
- Natural lighting with daylight sensors and controls
- Waterless urinals, low-flow plumbing fixtures and hand wash stations
- Low VOC adhesives, sealants, paints and coatings used inside the building
- Green cleaning program implemented

## PROJECT RESULTS

- LEED** for New Construction GOLD level achieved
- 28%** energy cost savings above ASHRAE 90.1-1999 energy standard
- 88%** savings of potable water use for irrigation
- 38%** savings of potable water for domestic uses
- 84%** of construction waste was diverted from the landfill

## LEED Facts

LEED for New Construction v 2.1  
Square Footage: 90,620 SF  
Certification Date: 3/9/2006



POINTS ACHIEVED		46/69
	Sustainable Sites	8/14
	Water Efficiency	3/5
	Energy and Atmosphere	12/17
	Materials and Resources	7/13
	Indoor Environmental Quality	11/15
	Innovation and Design Process	5/5

Think

Design

Build



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