



ADVENT SOLAR ALBUQUERQUE, NM

78% of construction waste diverted

30% savings in water

This project utilizes a **30,000** gallon cistern system

LEED® Facts

Advent Solar
Albuquerque, NM

LEED for Core and Shell
Certification awarded January 2, 2008

Certified 23 pts awarded*

Sustainable Sites	7/15
Water Efficiency	3/5
Energy & Atmosphere	0/16
Materials & Resources	5/11
Indoor Environmental Quality	6/13
Innovation & Design	2/5

**Out of a possible 65 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.



ADVENT SOLAR

Green Design for a Green Industry

Award Winning LEED Precedent Set in Mesa del Sol

PROJECT BACKGROUND

As the first green building in Mesa del Sol, this 87,600 sf manufacturing building set a precedent for sustainable design by achieving LEED Certification for its core and shell under LEED-CS. The building is used by Advent Solar to manufacture advanced solar cells and modules.

STRATEGIES AND RESULTS

Designed by Dekker/Perich/Sabatini, the building features high-efficiency HVAC units, low-flow plumbing fixtures that reduce water use by over 30%, and a 30,000 gallon cistern system for water harvesting and efficient irrigation. Material conservation was emphasized through use of recycled and locally available materials and recycling of over 80% of the construction waste. The building's exterior skin is made up of tilt-up concrete panels, with punched windows, glass overhead doors, and skylights daylighting the office and manufacturing spaces. Metal panels at the windows and entry tower provide a contrast with the colorful stucco walls and bring a high tech look to this environmentally sensitive facility. Sunshades were designed to support Advent Solar photovoltaic panels as well as provide shading. Alternative transportation is supporting by providing parking for bicycles and hybrid vehicles and locating the project within Mesa del Sol, which will grow into a dense community.

The building is one of the only cold dark shell commercial projects in the world to achieve LEED certification. The Advent Solar building has also been honored with the Southwest Contractor magazine award for Best Industrial Building in 2007 and the NAIOP Award of Excellence for the Best Industrial Building in 2006.

ABOUT MESA DEL SOL

Mesa del Sol is a 12,900-acre mixed-use district located on Albuquerque's south mesa. By combining job creation and sustainable urban community planning, Mesa del Sol will reflect a balance of environmental resources, economic objectives and social amenities in a community that is forward-looking with a highly defined sense of place. Advent Solar is a leading designer and manufacturer of silicon-based photovoltaic (PV) solar cells and modules, based in Albuquerque.

“LEED certification supports Mesa del Sol’s sustainability goals of ensuring that environmental considerations are included in our business, financial, and operational decision making.”

Michael Daly,
President of Forest City Covington



Architect: Dekker/ Perich/ Sabatini
Civil Engineer: Bohannon Huston
Commissioning Agent: TestMarc
Contractor: Klinger Constructors
Landscape Architect: Dekker/ Perich/ Sabatini
Interior Designer: Dekker/ Perich/ Sabatini
LEED Consultant: Dekker/ Perich/ Sabatini
MEP Engineer: Bridgers and Paxton
Structural Engineer: Chavez Grieves
Owner: Mesa del Sol/Forest City-Covington
Project Size: 87,000 sf

Photographs Courtesy of: Patrick Coulie

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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