

# U.S. Solar Heating & Cooling Alliance

- a Division of **SEIA** Solar Energy Industries Association®

## CASE STUDY: KIRTLAND AIR FORCE BASE

**Project Name:** Kirtland Air Force Base  
**Companies:** 310 Solar, Weston Solutions  
**Company Locations:** Albuquerque, NM - West Chester, PA  
**Type of System:** Solar Water Heating  
**Install Date:** December, 2010  
**Estimated Annual Savings:** \$32,000



New Mexico's Kirtland Air Force Base installed the first active solar water heating system on an Air Force facility in December 2010. The base now captures the sun's energy to heat the aquatic center on base. The solar water heating installation comprises an array of 72 collectors that transfer heat to a closed-loop water and propylene glycol mixture. This mixture is pumped to a heat exchanger that preheats water for the pool.

The system is estimated to produce 76 percent of the energy required to heat the indoor pool with savings of \$32,000 per year. Locally owned and operated 310 Solar and Western Solutions of Pennsylvania partnered on the design and engineering of the project. The 377<sup>th</sup> Air Base Wing Civil Engineer Division will manage continued operation of the system. The base is currently in the planning stages of another solar energy project.

*"Glenn Gallipoli (from left), of the company 310 Solar; Sarah Cobb, representing Sen. Tom Udall; Christy Smith, 377th Mission Support Group Civil Engineer Division, Chugach Task Order Project Manager; Col. Robert L. Maness, 377th Air Base Wing commander; Jessica Perez, representing Sen. Jeff Bingaman; and, Antonio Sandoval, staff member for Rep. Martin Heinrich, attend the Dec. 3, 2010, ribbon-cutting ceremony for the new solar water heating system at Kirtland's indoor pool."-Air Force Material Command*

### For more information, please contact:

310 Solar  
Steve House  
stevenmhouse@msn.com

377<sup>th</sup> Air Base Wing Public Affairs