





U.S. Department of Energy Solar Decathlon

The U.S. Department of Energy Solar Decathlon is an award-winning program that challenges collegiate teams to design, build, and operate solar-powered houses that are cost-effective, energy-efficient, and attractive. The winner of the competition is the team that best blends affordability, consumer appeal, and design excellence with optimal energy production and maximum efficiency.

Considered one of the Energy Department's most successful efforts, the Solar Decathlon helps remove multiple barriers to the adoption of solar energy technologies by:

- Educating students and the public about the money-saving opportunities and environmental benefits presented by clean-energy products and design solutions
- Demonstrating to the public the comfort and affordability of homes that combine energyefficient construction and appliances with renewable-energy systems available today
- Providing participating students with unique training that prepares them to enter the clean-energy workforce.

For the first time since its inception in 2002, the Solar Decathlon was held outside of Washington, D.C. Solar Decathlon 2013 was held at the Orange County Great Park in Irvine, California, where the Solar Decathlon was the main attraction for the XPO, a clean, renewable, and efficient energy exposition.

The Solar Decathlon competition houses and XPO were open to the public free of charge on eight days over two weekends. Public hours were from 11 a.m. to 7 p.m. daily:

- Thursday, Oct. 3-Sunday, Oct. 6, 2013
- Thursday, Oct. 10-Sunday, Oct. 13, 2013

The Solar Decathlon helps educate millions of people beyond the solar village, thanks to the abundant media coverage that surrounds the competition. In 2011, the competition generated more than two billion media impressions and more than 500 television interviews.

The 19 teams that competed in the Solar Decathlon were:

- Arizona State University and The University of New Mexico
- Czech Republic: Czech Technical University
- Kentucky/Indiana: University of Louisville, Ball State University and University of Kentucky
- Middlebury College
- Missouri University of Science and Technology
- Norwich University
- Santa Clara University
- Southern California Institute of Architecture and California Institute of Technology
- Stanford University
- Stevens Institute of Technology
- Team Alberta: University of Calgary







- <u>Team Austria: Vienna University of Technology</u>
- Team Capitol DC: The Catholic University of America, George Washington University, and American University
- Team Ontario: Queen's University, Carleton University, and Algonquin College
- Team Texas: The University of Texas at El Paso and El Paso Community College
- University of Nevada Las Vegas
- University of North Carolina at Charlotte
- University of Southern California
- West Virginia University.

The XPO: Clean+Renewable+Efficient Energy Exposition

The XPO is a clean, renewable and efficient energy exposition, featuring visionary and innovative companies, products and educational opportunities, developed around the U.S. Department of Energy Solar Decathlon 2013 at the Orange County Great Park. Through fun, interactive exhibits and activities, the XPO provided visitors with information about the broad spectrum of energy efficiency in home design, transportation, consumer products, food production and education. Visitors experienced actionable ways to implement energy efficiency today and into the future, with the goal to leave the XPO with tools and resources to live differently.

XPO features included:

- The SunShot Innovation Pavilion featured an educational trade show connecting consumers to clean, renewable, efficient energy companies, products and services and will also showcase the U.S. Department of Energy's SunShot program, featuring educational activities and displays from a variety of solar companies.
- The Powerful Ideas Symposium featured guest speakers and panelists presenting useful, innovative ideas related to clean, renewable, efficient energy and its connection with the world and our everyday lives.
- The Powerful Ideas Classroom featured educational activities and lessons focused on science, engineering, architecture and energy for preschool through high school students.
- The Competitors Pavilion showcased the colleges and universities competing in the Solar Decathlon, providing opportunities to learn more about the technology and innovation used in the student teams' homes. This Pavilion will also feature the U.S. Department of Energy Housing Innovation Awards and the American Institute of Architects Orange County Student Design Committee Awards.
- **The Transportation Pavilion** featured U.S. Department of Energy's EV Everywhere program, along with electric vehicle demonstrations, ride-and-drives and competitions.
- The Arts and Culture Zone eatured artistic gallery exhibitions where guests can explore, discover, and experience how art can be influenced by environment and the environment by art.
- **The Farm + Food Zone** featured exhibits and workshops on the benefits of locally-grown food and how to grow nutritious, delicious food and maintain healthy gardens.







- The XPO Food Pavilion featured a central gathering place and market that features
 fresh organic produce, healthy food and refreshments and seating for Solar
 Decathlon/XPO guests. Promote a lifestyle of healthy eating through responsible
 purchasing and consumption of foods that use clean, renewable and efficient energy
 during production
- The ABC Green Home featured tours of the certified net-zero energy home created by Southern California Edison, Green Home Builder Magazine and a host of innovative and creative vendors and suppliers, located at the Orange County Great Park.