



DOE's Solar Decathlon Homes

Competitors Harness Extra 'Solar Power' from Soybeans

At least four university and college teams incorporated soy biobased products into their entries to the U.S. Department of Energy's (DOE) Solar Decathlon in October on the National Mall in Washington, D.C. Every two years, colleges and universities from around the world compete in DOE's contest of cutting-edge energy efficiency and renewable energy innovation. Teams from The Ohio State, University of Kentucky and Virginia Tech extensively utilized decorative hardwood plywood that uses soy as a bonding agent in kitchen cabinets, wall paneling and more. An advantage of the soy product is that it does not emit harmful fumes from urea formaldehyde.



Virginia Tech team member Corey McCalla inspects cabinets made with plywood that uses soy as a bonding agent that does not emit harmful fumes from urea formaldehyde.

The Iowa State team chose a soy spray foam insulation. The attractive front entrance to the Iowa State home featured biobased laminated doors with an exterior surface made from a corn-based plastic and laminated with a soy resin. The soy resin outlined a green plant design etched into the doors. The decorative hardwood plywood is provided by Columbia Forest Products and features a soy-based PureBond® assembly technology, which has no formaldehyde in its chemical makeup. Cedar Rapids, Iowa-based Sage Companies assisted Iowa State's use of the spray foam insulation made by Biobased



The Iowa State team's entry included the use of soy-based spray foam insulation.

Technologies®. Both are cost competitive compared to petroleum-based counterparts with the same physical attributes.



The Ohio State team members install a wall unit.

Go to www.soybiobased.org to see these homes. For information on Columbia Forest Products, go to <http://columbiaforestproducts.com>. For information about Biobased Technologies, go to <http://biobased.net>.

For more information write:

United Soybean Board

16305 Swingley Ridge Road, Suite 120

Chesterfield, MO 63005-1429

www.unitedsoybean.org/newuses

or email: merker@smithbucklin.com

This activity is for information only. The United

Soybean Board does not endorse, promote or make any representations regarding specific suppliers.

The United Soybean Board was created by the Soybean Promotion, Research, and Consumer Information Act, 7 U.S.C. §§ 6301-6311 (the Act), and the Soybean Promotion, Research, and Consumer Information Order, 7 CFR Part 1220 (the Order), to promote increased demand for and consumption of soybeans and soybean products. Pursuant to the Act and the Order, USB does not engage in lobbying and does not attempt to influence government policy or action.