



2011 EcoHome **DESIGN AWARDS**

15 AWARD-WINNING PROJECTS SPAN
THE SPECTRUM OF SUSTAINABLE DESIGN
AND HIGH-PERFORMANCE FEATURES

The best sustainable homes incorporate features and attributes that would make any home great, but go much further. Artful detailing is balanced with outstanding performance. Great floor plans not only create attractive and livable spaces but are enhanced with natural light and ventilation. And the palette of materials and finishes not only communicates a home's style, beauty, and sense of place, but also ensures environmental sensitivity, health, and durability. They provide comfort and economy as well as shelter.

On the following pages you'll see 15 award-winning projects, selected by our judges from a strong and wide-ranging field of entries, that demonstrate how these attributes can be integrated into today's homes regardless of style, location, or price range and applied to existing as well as new projects. Every year we witness a deepening awareness, interest, and maturity in sustainable design, but nowhere is this more evident than in the projects submitted for consideration in our EcoHome Design Awards program and in the outstanding projects ultimately selected to receive the awards. We are proud to present this year's EcoHome Design Awards winners—and to celebrate the best in sustainable design.

THANKS TO THE 2011 ECOHOME DESIGN AWARDS JURY

BRAD BEESON
Bethesda Bungalows
Bethesda, Md.

MICHELLE DESIDERIO
NAHB Research Center
Upper Marlboro, Md.

JOEL FRALEY
Neil Kelly Design/Build
Portland, Ore.

JENNIFER OWENS
U.S. Green Building Council
Del Mar, Calif.

DENNIS WEDLICK
Dennis Wedlick Architect
New York, N.Y.



GRAND AWARD

CELO RESIDENCE

CUSTOM, LESS THAN 2,000 SQUARE FEET
CELO, N.C.

Architectural design, sustainable performance, and careful placement on a tricky site combined to win this project a Grand Award. The judges especially liked the consistency and connection of natural materials used inside and outside the home, the linear layout and exposure along the sloping topography, and how the house connects to and blends in with its vegetated surroundings.

The project team took great care to preserve the property's existing trees during construction and focused on landscape details that include 3,750 gallons of rainwater catchment storage for irrigation; pervious walkways, patio, and driveway; and drought-resistant plants. Toto dual-flush toilets and low-flow Danze showerheads and lav faucets aid interior water efficiency, and greywater drain lines are roughed-in for future use.

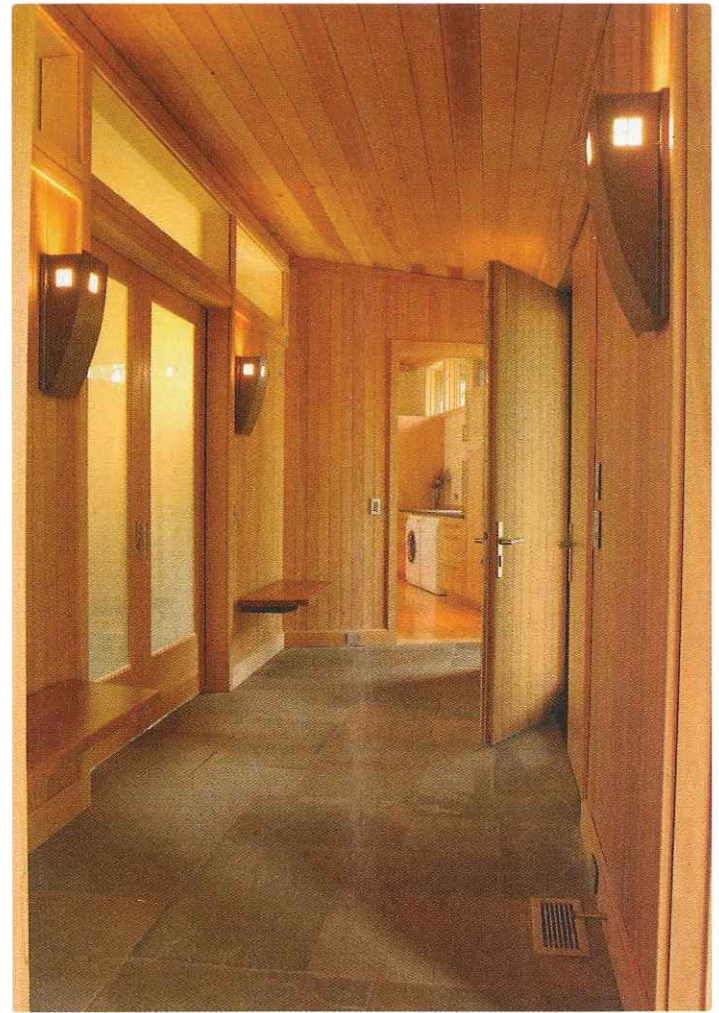
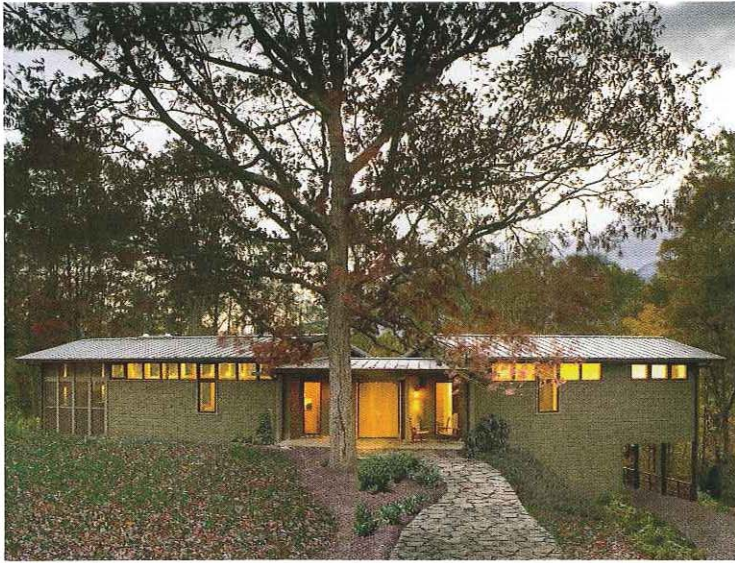
Exterior finishes include standing-seam metal roofing,

FSC-certified wood shingles, and locally harvested stone. Interior materials feature stone, tile, and naturally finished wood flooring; urea formaldehyde-free maple cabinets with concrete countertops; FSC-certified interior doors; and low-VOC paints and finishes throughout.

Energy efficiency targets were met using Icynene spray-foam insulation throughout; Hurd low-E, argon-filled windows and doors; a 15+-SEER heat pump and high-efficiency water heater; and low-voltage lighting. Lines are roughed-in for future solar system installations.

But it was the successful balance between the sustainable design and high-performance features that tied everything together for the jury. As one judge said, "This project shows how achievable sustainable design can be in creating a bright and livable home connected to the outdoors, while integrating performance features that improve water efficiency, indoor air quality, and energy demand." —*Rick Schwolsky*

Careful placement on a sloped site, and amid trees protected during construction, help the Celo Residence integrate into its surroundings. The project features an attractive kitchen loaded with features like local custom maple cabinets, recycled-content concrete countertops, Energy Star-rated appliances, low-voltage lighting, and a low-flow faucet. The connection between indoor and outdoor spaces and use of consistent interior and exterior materials captured the judges' attention and helped this project earn its Grand Award



DETAILS Project: Celo Residence, Celo, N.C. | **Size:** 1,538 square feet | **Cost:** \$350 per square foot | **Completed:** October 2008 | **Certification:** Energy Star | **HERS Rating:** 75 | **Architect:** Samsel Architects, P.A., Asheville, N.C. | **Builder:** Sunspace Homes, Burnsville, N.C.
GREEN HIGHLIGHTS Energy: Dow extruded polystyrene under slab / Icynene spray-foam insulation in wood-framed assemblies / Hurd low-E, argon-filled windows and doors (U factor 0.29) / SEER 15+ American Standard electric heat pump / high-efficiency DHW / low-voltage interior lighting and LED landscape lighting / rough-in for future PV / Energy Star appliances | **Resources:** 25% to 30% fly-ash concrete / FSC-certified cedar shingles / Marshfield recycled-content interior doors / advanced framing layout / local stone for fireplaces / standing-seam metal roofing | **IAQ:** natural cross ventilation / Honeywell controlled mechanical ventilation / low-VOC interior paints and sealants / no-added-urea-formaldehyde interior doors and cabinets | **Water:** Toto dual-flush toilets / Danze low-flow fixtures / 3,750-gallon rainwater cistern / rough-in for greywater system / drought-resistant plants / permeable surfaces
 * For additional images, floor plans, and a list of products, view this project at http://go.hw.net/EHDA2011_Celo.