PLUS GreenBuilder o Green for the masses, page 19 Two demonstration homes offer lessons on energy use, page 45 Hot offerings in home energy tech, lighting, and paint, page 51

DEFINING GREEN



Planning for the future

Greenbrier Expands Its Healing Ways

Going green is neither new nor thorny for landmark resort.

West Virginia's famed Greenbrier has long symbolized the healing power of nature for an illustrious clientele. Even the golf course is a Certified Audubon Cooperative Sanctuary. Now the resort will include 56 green homes.



Taking both process and inspiration from the NAHB's Model Green Home Building Guidelines, the Greenbrier Sporting Club, will be an entirely green-certified neighborhood. The Greenbrier Resort is on 6,500 acres of mountains, forests, fields, and streams. The 56-lot Greenbrier Sporting Club is the newest neighborhood in the gated Summit community; 72 percent of its 213 acres will be dedicated to open space. Builder and developer DPS Sporting Club Development, N.Y., spent 11 years developing the White Sulphur Springs, W.V., the houses of which will be built with Timberpeg post-and-beam homes. The factory-made frames (fabricated of sustainable wood) are clad with SIPs clad in

sustainable cedar. Even the cedar shingles are cut from smaller stock or fallen trees. Panelized foundations are similarly green and minimally invasive well-insulated prefabricated systems. New York-based architect/ interior designer Campion Platt developed an entire palette of green finishes and complemented his color suites with complete eco-furniture packages for buyers seeking turnkey homes. Homes will capture and recycle rainwater.

DPS caps its commitment to smaller footprint development by limiting the total square footage of houses to less than 5,000 square feet.

PROJECT DPS Sporting Club
Development, New York SIZE 3,0554,880 square feet NEIGHBORHOOD
SIZE 213 acres and 56 lots PRICE
Homesites start at \$650,000
BUILDER EarthWise Homes of Sterling
Construction, White Sulpher Springs,
W.V. ARCHITECT/INTERIOR DESIGNER
Campion Platt, New York

WHAT'S SO GREEN ABOUT IT?

- > Greenbrier Sporting Club pioneers use of NAHB Green Home Building Guidelines.
- Building materials are sourced within 300 miles of the site.
- The flooring is made from local reclaimed wood or indigenous, regionally harvested, sustainable oak.
- Countertops are made from regional soapstone, granite, or marble.
- Landscaping reuses/refocates indigenous plants and on-site materials, such as stone for retaining walls.
- > Geothermal HWAC options.

Resources D-

Campion Platt Architect
www.campionplatt.com
Foundation system
www.superiorwalls.com
Green Homes at The Greenbrier
www.greenbriergreenhomes.com
NAHB's Model Green Home
Building Guidelines www.nahb.
org/generic.aspx?genericConten
ttD-56077
Sterling Construction

Management www.scmwv.com Timberpeg www.timberpeg.com

Maximize Efficiency, Minimize Waste

Mixed-use green development harnesses, air, sun, water, and wind.

Project 12W is shooting for
LEED Platinum. This 22-story
mixed-use project features five
floors of below-grade parking,
a single floor of ground-level
retail, four floors for Zimmer
Gunsul Frasca Architects
national headquarters and 17
floors of residential apartments.
Structural steel and aluminum
spandrel panels are among
the recycled and reclaimed
construction materials, say



architects John Breshears and Craig Briscoe. Construction waste will be recycled. Stormwater management includes green roofs, and a 30,000-gallon tank (in the subterranean garage) to catch and recycle rainwater. The building also features passive solar hot water heating. Unlike many tall building, windows at 12W open and close. The architects' offices will feature an innovative HVAC technology popular in Germany and Denmark; employees can control their own comfort. Air circulates

at low velocity under the floor with controllable vents at each work station; a Danish product will hang from the ceiling to heat and cool the circulating air. Individuals can control both the temperature and air-flow where they work. What intrigues the architects most are the four turbines on 40-foot masts. The design has been wind-tunnel tested, a process that Breshears says made something "invisible visible and comprehensible."
Wind should provide roughly

WHAT'S SO GREEN ABOUT IT?

- > Mixed use means pedestrian friendly.
- > LEED Platinum rated.
- > Green roofs moderate climate and add decorative pleasure to the building's outdoor decks. 30,000-gallon rainwater catchment hides under the parking-garage stairs.
- > Four turbines expected to produce one percent of the building's overall power. With 22 stories plus five of underground parking one percent is more than pocket change.
- Structural steel and aluminum spandrel panels are recycled material.
- > Windows open for natural ventilation.

one percent of the building's power (making Wind slightly symbolic) but even one percent denotes a sense of purpose when it tops a 22-story building. 12W will monitor building systems. performance. GB

PROJECT Project 12W, Portland, Ore.

SIZE 22 above-ground floors, five floors underground parking USE Mixed use: first floor retail, four floors commercial (85,000 square feet), 17 floors expected to have 275 rental apartments, ranging in size from studios to one-, two- and three-bedrooms, PRICE \$137 million EXPECTED COMPLETION May 2009 BUILDER/DELELOPER Gerdin Edlen Development Co., Portland; the Goodman family, ARCHITECT Zimmer Gunsul Frasca Architects, Portland

Resources D-

Energy Trust of Oregonwww.energytrust.org
Gerding Edlen Development
www.gerdingedlen.com
Portland Office of Sustainable
Development:
www.portlandonline.com/bes (http://
www.portlandonline.com/bes)
Zimmer Gunsul Frasca Architects
www.zef.com