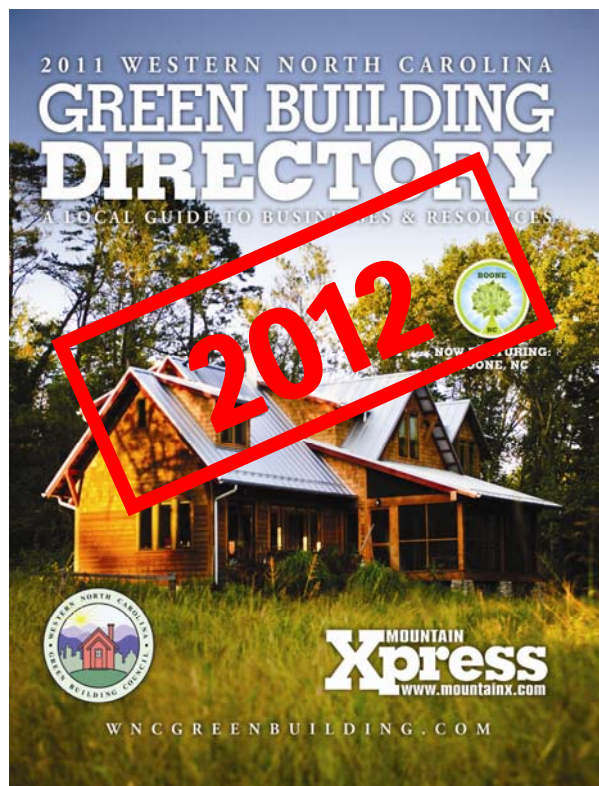


WNC Green Building News



Spring 2011

Front Page
WNCGBC News
Local News
Regional News
Platinum Mem.
Calendar
Program Updates



New Listing Procedure

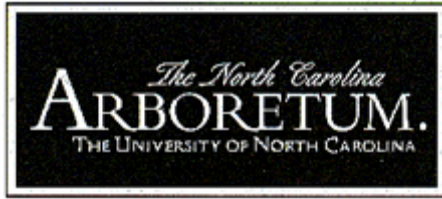
**Make Sure
Membership is current**

**Go to:
www.wncgreenbuilding.com**

**Submit your listing!
(Starting Nov. 1st)**

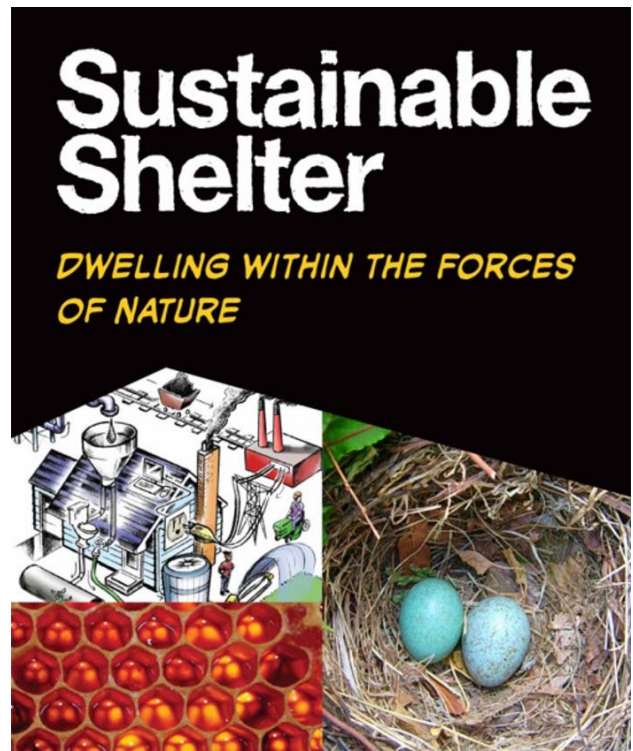
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WNCGBC News



The Sustainable Shelter exhibit is now open at the NC Arboretum!

This exhibit is a must see for anyone interested in green building, and is a great way to introduce sustainable building to friends and family!



The WNCGBC Outreach Committee is a Partner in Education with Asheville Green Drinks and is responsible for planning quarterly green drinks programs, and providing volunteer support for WNCGBC and other local, sustainable projects. The Outreach Committee is very flexible! Commit a lot, or commit a little, you'll enjoy this fun, low pressure, green organization!

**FOR MORE INFORMATION OR
TO JOIN, HELP, OR VOLUNTEER PLEASE EMAIL
OUTREACH@WNCGBC.ORG**

More WNCGBC News

New Homes Page

WNCGBC.org has been getting some new improvements, courtesy of Kateka Thatch, a web design intern from Appalachian State University!

Among the many improvements 'Kat' has made, wncgbc's new home's page has been updated!

The page now includes information about NC HealthyBuilt Homes, LEED for Homes and the NAHB Green Building Certification Program.

Stay tuned to the WNCGBC website for new improvements over the coming weeks!

NC HealthyBuilt Homes Program
WNC: A collaboration between the N.C. State Energy Office and the N.C. Solar Center, the NC HBH of Western NC is locally administered by the WNC Green Building Council. Homes are inspected by locally vetted third-party green raters.

WHAT: A statewide green-building program with standards incorporating the NC Building Code. The NC HealthyBuilt Homes Program provides a certificate for homes meeting "green home guidelines" built by residential builders and developers who practice sustainable, high performance building strategies, making the home a comfortable, healthy and affordable place to live. Every HealthyBuilt home is also required to be qualified as an ENERGY STAR home, but the program goes above and beyond energy efficiency. NC HealthyBuilt homes start with a menu of items, divided into seven sections: Site, Water, Building envelope, Comfort systems, Appliances, lighting and Telecommunications, air quality and Materials. Each home must attain a certain number of points in each section to qualify. In this way, builders are required to approach and improve all aspects using environmentally friendly construction. The more points accrued, the higher the level achieved: certified, silver, gold or platinum. These homes are inspected to ensure that each goal is actually achieved.

HOW: Contact the WNCGBC to review your checklist and register the home, then work with a locally approved green rater to inspect the home.

SPECIAL FEATURES: The program is locally administered and is geared to address the local climate, terrain and needs of the WNC area.

INCENTIVES: Rebates for permit fees – \$100 from the City of Asheville and \$500 in the town of Black Mountain

MORE INFO: [NC HealthyBuilt Homes of WNC](#)

LEED for Homes
WNC: The U.S. Green Building Council, provided locally by the WNC Green Building Council. Homes are inspected by nationally certified green raters.

WHAT: A national, voluntary rating system promoting the design and construction of high performance green homes. Each home is inspected and performance tested by a third party certified green rater. ENERGY STAR performance is a baseline, with minimum requirements for all aspects of green construction similar to those described in NC HealthyBuilt Homes. There are more prerequisites than for HealthyBuilt, but also awards in many minimum point requirements per section. The more points accrued, the higher the level achieved: certified, silver, gold or platinum.

HOW: Contact the WNC Green Building Council for a list of approved LEED for Homes Green Raters and Providers in your area and then register the home with the U.S. Green Building Council.

SPECIAL FEATURES: A national program with market recognition of the LEED brand. LEED also involves the top 25 percent of the nation's builders.

INCENTIVES: Rebates for permit fees – \$100 from the City of Asheville and \$500 in the town of Black Mountain

MORE INFO: [LEED for Homes](#)

National Green Building Certification Program
WNC: National Association of Home Builders and NAHB Green Verifiers

WHAT: A national program facilitated by the National Association of Home Builders in collaboration with the International Code Council that ensures a code-enforceable standard for green building. The program contains six sections with many mandatory items and a point system similar to NC HealthyBuilt and LEED for Homes. In order to achieve higher levels (bronze, silver, gold and emerald), the home has to reach higher levels of efficiency. ENERGY STAR is only a requirement at higher levels. Large houses also require more points.

HOW: Visit the NAHB Website, review the checklist, and contact a NAHB verifier for inspections.

SPECIAL FEATURES: American National Standards Institute (ANSI) approved standard, code-driven for ease of local implementation and aims to reach the mainstream.

INCENTIVES: None at this time.



WNCBGC's most recent intern, Jake Sadler, will be moving on after 1 year with WNCGBC! Jake was very happy about his time with the Green Building Council saying, "It has been a pleasure working with everyone in the green building industry in WNC. I hope the commitment our contractors, realtors, and industry leaders in the area have shown to sustainable building practices continues!" Good luck to Jake in the future!

Spreading The Word!

ASHEVILLE
CITIZEN-TIMES

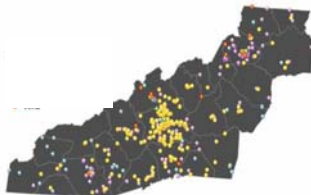


If you have heard or seen any of WNCGBC's newest advertisements we're happy! WNCGBC received a grant from the NC Solar Center to advertise NC HealthyBuilt Homes in local media. **So if you build HBH, join the advertising blitz and do some of your own!!!**

Local Green News

WNC Highlights from the 2011 NC Clean Energy Data Book

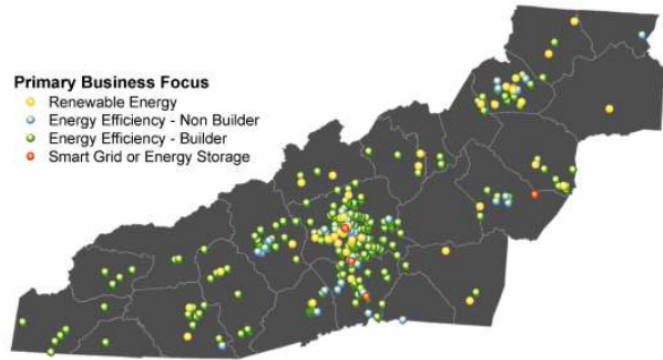
2011 NORTH CAROLINA CLEAN ENERGY DATA BOOK



System Type

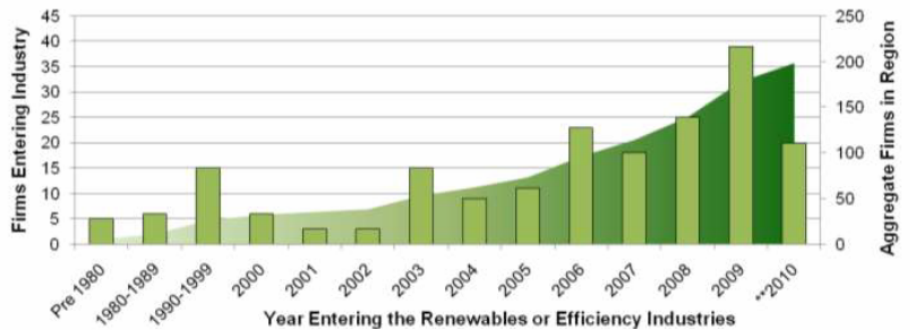
- Biomass
- Geothermal (Vertical Only)
- Hydroelectric
- Solar (PV and Thermal)
- Wind

Exhibit 19: Clean energy firms with a primary location in the Advantage West region.



Source: NC Sustainable Energy Association.

Exhibit 20: Evolution of clean energy firms in the Advantage West region.



Strengths

- Presence of a robust community of energy efficient builders.
- Widespread adoption of a regional unique building certification in NC HealthyBuilt Homes.
- Second largest regional population of firms.
- Third largest county cluster of firms in North Carolina located in Buncombe County.
- Existing base of diversified industries with expertise in multiple types of technologies.
- High density of solar projects in Buncombe county.
- Presence of Appalachian Energy Center at Appalachian State University.
- Presence of multiple public and private training and support mechanisms.

Opportunities

- Large number of commercial energy efficiency opportunities using largely standardized buildings.
- Homes built prior to 1970 create a clustering energy efficiency opportunities in rural counties.
- Existence of a large biomass resource.
- Strong wind resource and small wind testing center create environment for small wind expertise.

Weaknesses

- Only one county with significant number of Energy Star certified schools.
- Few hydroelectric maintenance firms in region.
- Limited solar adoption in the northeastern region.
- Most Energy Star grocery certifications limited to a single parent company.
- Despite high potential for residential energy efficiency, northeastern counties may be underserved.

Threats

- Hydroelectric facilities are old, and license renewal is not a forgone conclusion.
- Uncertainty if state and federal lands can be utilized for renewable energy development.
- Legal uncertainty discourages utility scale wind development.
- Securing capital for renewable and efficiency projects may be more difficult in rural areas.

Local Green News

ASHEVILLE — Clean energy has been one of the few bright spots in an otherwise dark economic time for Western North Carolina with employment growing 4.9 percent in solar companies, green building and energy efficiency jobs in the past five years, compared with a 7.9 percent decline in the regional economy overall.



Western North Carolina boasts the highest concentration of clean energy companies per capita in the state as well as the most power generated from solar, wind, geothermal, and other renewable energy sources.

“We can’t be afraid to say that we are the king of the hill in a number of categories,” said Ron Townley of Land-of-Sky Regional Council.

But the region must do a better job of promoting its assets to keep a competitive advantage in clean energy, according to an economic analysis unveiled Monday before entrepreneurs and civic leaders at Diana Wortham Theatre in downtown Asheville.

The event hosted by Land-of-Sky Regional Council and AdvantageWest unveiled the EvolveEnergy Partnership, a campaign to brand Western North Carolina as a business destination for alternative energy, energy efficiency and green building.

“We have a choice in clean energy,” said Michael Shore, CEO of the fast-growing FLS Energy firm in Asheville. “We can bemoan the lack of activity in Washington with the failure to create jobs and to level the playing field between clean energy and fossil fuels, or we can take the issue into our own hands here in Western North Carolina.”

WNC could take lessons from Texas in bragging, said Angelos Angelou, an economist from Austin who surveyed some 200 local leaders for a 200-page report on the region’s assets in clean energy. “I’ve never met so many entrepreneurs in a region so small,” Angelou said.

But many of those he called “lifestyle entrepreneurs” who seemed uninterested in growing their companies beyond a local market to compete nationally and internationally.

The region also needs many more trained engineers to keep its advantage, Angelou said. Too many students finish their training outside the region and find work there, instead of returning with their talents to the mountains.





Progress Energy

Solar in WNC, A Growing Industry Gets Attention Even From the 'Big Guys'

ASHEVILLE, N.C. (Oct. 19, 2011) –

Progress Energy Carolinas today announced an 18-month research-and-development project with the Electric Power Research Institute (EPRI) to evaluate the effects of widespread, small-scale solar photovoltaic (PV) systems on the electric grid.

Progress Energy Carolinas will install twelve 180-watt solar PV panels and monitoring systems on utility poles in Asheville, N.C. Progress Energy Carolinas and EPRI will collect detailed data in one-second intervals to study the potential benefits and impacts of installing multiple solar electric generators with variable outputs in concentrated areas.

“We’re committed to further integrating renewable energy into our balanced generation portfolio,” said Lloyd Yates, president and CEO of Progress Energy Carolinas. “It’s vital that we maintain reliable service to our customers even as we work together to increase solar energy on our system. We’re excited to work with EPRI on this project as we address the challenges of rising costs, growing energy demand and global climate change.”

The project will compare data from up to 400 locations nationwide and analyze the impact of cloud movements, shading and temperature on the systems’ production. Progress Energy Carolinas selected Asheville for the location of its trial due to the mountainous terrain and weather conditions. Later this year, Progress Energy Florida will install similar systems on utility poles around Orlando.

Electricity from dispersed solar PV resources is a growing contributor to the electric power generation supply. According to EPRI, distribution grid-connected PV systems are expected to account for more than 90 percent of solar capacity additions in 2011.

Progress Energy Carolinas is experiencing an increase in solar PV systems on its grid due to state tax incentives, utility-sponsored programs and growing requirements for solar energy under North Carolina’s state energy policy, adopted in 2007. The company anticipates 200 to 300 small-scale PV interconnections each year and the number of systems is expected to increase as the energy policy targets rise and the cost of solar power decreases.

Progress Energy Carolinas has a diverse group of incentive programs aimed at helping its customers harness the power of the sun. The SunSense® commercial and residential solar PV programs offer premium payments and rebates to customers to help reduce the cost of installing rooftop solar PV arrays. For more information on these programs, visit www.progress-energy.com/SunSense.

Asheville Greendrinks

Social Networking for Sustainability

**AGD Meets Every Wednesday at
Posana Cafe The fun starts at 5:30pm
and Programming from 6pm-7pm**

October 26th –Slow Money
November 2nd – WNCA Good Growth
November 9th — Student Energy Conference
November 16th – Recycling and Food Waste
November 23rd– No Programming

For Detailed Schedule Head To:
www.ashevillegreendrinks.com



Appalachian Renewable Energy Workshop Series

Through November 19th

AGENDA: Workshops and other training activities are one way the North Carolina Small Wind Initiative strives to serve the region in wind power adoption. Making use of the unique Small Wind Research and Demonstration Facility, the SWI holds workshops for all levels of interest on the "ins-and-outs" of small-scale wind power. Please see the following dates and topics to learn more about ways you can take the power in your hands.

See our **Events Page** for more information or **click here** to be directed to the full web schedule

CEU Credit Available



Selling Energy Efficient Homes:

WHEN: Nov 8 2011

AGENDA:

Attend this class on selling energy-efficient homes and learn how to answer customer questions about comfort, energy efficiency, indoor air quality and more. Learn how to communicate the benefits of energy-efficient homes to potential buyers to increase sales! This class is full of valuable information and tools delivered in the form of small group workshops, take-home handouts and an interactive in class testing demo.

- Market & Industry Changes
- Features & Benefits of ENERGY STAR® Homes
- Advanced Energy's SystemVision™
- In-class Testing Demonstration **COST:** \$30

CEU CREDITS: CE Elective Credit (4 Hours)

REGISTER AND MORE INFO:

Contact :
ph. 919-857-9000 or
email: erwinae@appstate.edu

WNCGBC Presents: HealthyBuilt Home Orientation Training:

WHERE: Glen Rock Depot: 372 Depot Street Asheville,

WHEN: 12:30-4:30 pm

AGENDA:

All interested homebuilders and building professionals are invited to a half-day introduction to the NC HealthyBuilt Homes (HBH) Program

COST: \$59 for members, \$69 for non-member

CEU CREDITS: 4 GPA Credits, 4 AIA HSW (self-reporting), 4 ECO Agent credits

REGISTER AND MORE INFO:

ph. 828-254-1995 or
email: office@wncgbc.org

Stay Connected www.wncgbc.org



WNCGBC Program Updates



HBH homes certified to date: **542**

For a list of all registered builders, visit:
www.wncgbc.org/healthybuilt



LEED For Homes

LEED Buildings Certified: **23**

LEED Buildings Registered: **101**

WNCGBC Is Proud to Announce Asheville's 1st LEED Platinum Home!



WNCGBC is pleased to partner with the NC Solar Center, the Triangle and Charlotte Chapters of the USGBC as a USGBC Authorized Education Delivery Partner, offering LEED Homes workshops together throughout the State.

LEED Homes 252:
Understanding the LEED
Rating System.

October 25th 9am-5pm
Habitat For Humanity Asheville

<http://store.ncsolarcenter.org/ho25unleforh.html>

Appalachian Offsets

Total tons offset to date: **3207**



Visit www.AppalachianOffsets.org for more information and to offset your carbon emissions.

Products Currently Available From WNCGBC:

- 1.7 gpm chrome showerheads \$5
- 2.0 gpm handheld chrome showerheads \$15
- 0.5 gpm faucet aerators \$1
- Radon test kits \$8
- Mixed Humid Climate Builder guide \$50

Directories Available

If you would like to distribute our free Green Building Directory please email:
jacob@wncgbc.org



WNCGBC is happy to offer a free introductory presentation to any and all interested groups!

If You Have a Team or Group In Mind Please Contact WNCGBC at (828)-254-1995 or email info@wncgbc.org



Special Thanks To A Few of Our Platinum Members



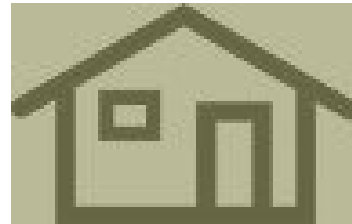
1751 Hendersonville Rd
Asheville, NC 28803
828-777-6308

shawn.fitzpatrick@smallemoughtocare.com

Southern Community Bank and Trust is a full-service community bank with 22 banking offices throughout North Carolina offering personal, business, and mortgage services. We deliver all the products and capabilities of a much larger bank, while providing a level of personal attention that shows us to still be "small enough to care." Stop by our location at 1751 Hendersonville Road in Asheville or find out more at www.smallemoughtocare.com.

BuildDwell, Inc. provides quality construction to Asheville, NC and it's surrounding areas. We have earned a reputation of excellence through our BuildDwell Inc. is your solution to all your home's needs; New home, renovated home, or handyman projects.

PO Box 706
Hot Springs, NC 28743
828-768-0828
bulddwell@gmail.com



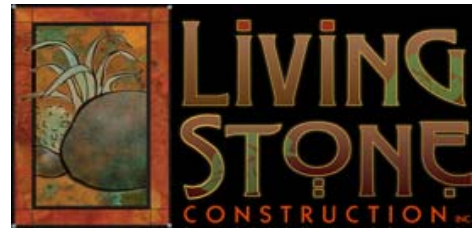
BuildDwell

We work in an open studio led by the principal, and all are welcome. Our firm is a team, and includes our clients and our consultants. We approach each project with no preconceived solutions, but attempt to determine what the owners' needs are and how best to meet them.

34 Wall Street, Suite 307
Asheville, NC 28801
828-253-4300

jane@mathewsarchitecture.com

MATHEWS
ARCHITECTURE, P. A.



PO Box 183
Black Mountain, NC 28711
828-669-4343
sean@livingstoneconstruction.com

Living Stone Construction is a first-tier builder of fine custom homes in Western North Carolina. Our mission is to provide our customers with a new or renovated home that exceeds their expectations. We do that with an attention to detail and adherence to our five core values: communication, quality, integrity, value and timeliness. Recognizing that each home represents a significant investment with the potential for substantial capital appreciation, we aim to provide our customers with a home that will be a delight to their families for years to come.

www.livingstoneconstruction.com

For a Full List of Our Platinum Members Or to Join/ Upgrade as a Platinum Member Please Visit our Website www.wncgbc.org or Call (828)-254-1995