



Builder Webinar: 2012 NGBS

October 2012

Webinar Agenda



- 2012 NGBS Schedule
- Transition Proposal for Projects
- Registration Process
- Transition for Verifiers
- 2012 NGBS Highlights
- Marketing Opportunities and Materials
- Program Footnotes
- Questions / Feedback

2012 NGBS Schedule

ANSI Review and Approval Pending



- 30-day appeals period closed on September 24, 2012
- 2nd Draft available at www.nahbrc.com/ngbs
- Few if any changes expected
- ANSI review over next few months
- 2012 NGBS by 1st Quarter 2013
- RC has no control of ANSI schedule – watch out for news and information in upcoming Insider Updates

Transition to 2012 NGBS Headlines



- Registration is free, but mandatory for all projects
- 2012 NGBS projects must use Verifier accredited to 2012 NGBS
- All certification information & resources will move to www.nahbrc.com/green by the end of 2012
- The online Green Scoring Tool will not be revised for 2012 NGBS
 - No new projects can be entered after 2012 NGBS approved
 - Users can access previously scored projects

Transition Proposal: Sunset 2008 NGBS

- Projects using 2008 NGBS must register **no later than** 3 months after ANSI approval of 2012 NGBS
- Cannot register for 2008 NGBS once 3 month grace period is over
- Completion Deadlines
 - SF: Homes must be certified within 18 months of 2012 approval
 - MF / Land Development: Must be certified within 36 months of 2012 approval
 - Limited exemptions may be granted to completion deadline for registered projects
- **No exemption for missing registration date**

Transition Proposal: Launch 2012 NGBS

- Design can start now, if desired, following 2012 draft but must ensure compliance with ANSI-approved final version
- No inspections can be done before ANSI approves 2012 version
- Verifiers must be accredited to 2012 NGBS to perform inspection
- Available to all homes, buildings, land developments once approved

Registration Process

Mandatory



- Objectives
 - Establish what version of the Standard [2008 or 2012] the building will use for compliance
 - Get homes into the system quicker, to market them earlier
 - Streamline the process for verifiers

Verifiers Will Register New Projects

- Verifiers are responsible for registering all projects
- Project = SF home, MF building, community of multiple MF buildings, land development, renovations
- Must have client commitment prior to registration
- Will not accept non-verifier to register project
- Registration is free
- Can register multiple SF homes for each builder with simplified process

Registration Form Collects Following Information

- Project Name
- Version of the Standard [2008 or 2012]
- For multifamily projects only:
 - Number of MF buildings in project
 - Total number of units in the project
- Project Contact Name
- Name of Company for Project Contact
- Project Contact email
- Project Contact phone

Registration Assigns Unique Project ID

- Each SF home, MF building, or land development needs Project ID
- Multifamily development with multiple buildings registers as single project
- Project ID will follow project through certification process
- Verifier will receive confirmation email
 - Email contains project information provided by verifier
 - Project ID number
- Project Contact sent email congratulating them on registration
 - Email contains project information provided by verifier
 - Project ID

Project ID

- Project ID follows project through certification
- Verifiers use for inspection notifications
- Verifiers use on Verification Reports
- All projects currently in system will be automatically assigned a Project ID



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Project Information Form

- MF projects and land developments will have to complete Project Information Form
- Customized link will be sent when Verifier registers MF building or land development and goes directly to pre-populated form
- Can be filled out by verifier, builder, developer, or other
 - If verifier does not fill out form, just forward the customized link
- Information can also be edited at this point and the addresses of individual buildings can be inputted (when more than one building)

Builder Agreement

- Research Center sends Builder Agreement out as soon as home(s) is registered
- Before home appears on website, RC must have received completed Builder Agreement and proof of insurance
- Verifiers can provide Agreement to new clients to facilitate process
- Builders do not have to submit agreement more than once
- Must keep insurance information updated

Accredited Verifiers Training

Training and Testing Requirements



- ALL Verifiers must take training on 2012 NGBS and pass test BEFORE they can inspect a project to 2012 NGBS
- New verifiers have to pass test on both 2008 & 2012 NGBS

2012 NGBS Certification Verifier Responsibilities

- RC will not accept inspection notifications or verification reports for 2012 certification from verifiers that have not passed 2012 NGBS test
- Verifiers cannot renew accreditation in 2013 without completing training and passing test

2012 NGBS Highlights



- New Practices
- Higher Energy Baseline
- Revised chapter point thresholds
- New certification opportunities

What Remains Constant

- ANSI-approval (pending)
- All residential
- Code-based language
- Few mandatory provisions
- Flexible, expansive point-based system
- Three energy efficiency paths
- Affordable, value-added option for Energy Star builders



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Chapter 4: Land Development Headlines

- More available practices
- Rewards building certification
- More innovative, progressive practices
- Great alignment with contemporary land use and planning issues
- Still applicable for urban, rural, suburban locations
- Certification thresholds raised



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Chapter 4: New Land Development Practices

- Mandatory Item: Project Checklist of green development practices
- New Mandatory Items:
 - Natural Resources Inventory used to create site plan
 - Plan to protect / maintain natural resources priority areas is created
- More direction given for some practices with regard to compliance, i.e. avoiding environmentally sensitive areas

Chapter 4: New Land Development Practices

- Low slope site points
- Greywater, cisterns, rain barrels
- Narrow street widths
- Open space preservation
- Multi-modal transportation points
 - Walking, transit, biking, bike and car sharing
- Mixed use development
- Community gardens

Threshold Points Required Land Development Certification



Site Design and Development	One Star	Two Stars	Three Stars	Four Stars
2008 NGBS	79	104	134	175
2012 NGBS	95	122	149	176

Chapter 5: Lot Design, Prep Headlines, New Practices

- More points for flat, infill lots
- Rewards land development certification
- Additional stormwater management practices
- Points for community-based practices
- Greater specificity for wildlife habitat practices
- Bicycle use points
- Community gardens



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Chapter 6: Resource Efficiency Headlines

- Durability practices from IAQ Chapter moved here
- Life Cycle Analysis expanded
- Universal Design Elements added
- Points for certified sustainable products



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Chapter 7: Energy Efficiency Headlines

- Baseline is 2009 IECC
- Whole house improvement, not just heating, cooling, water heating
- Three compliance paths remain
 - Performance (req'd for Emerald)
 - Prescriptive
 - Alternative bronze (Energy Star or 2012 IECC / 2012 IRC Chapter 11)

Chapter 7: Energy Efficiency

- New MANDATORY Requirements:
 - HVAC & Duct system sizing
 - Inspection criteria for building thermal envelope
 - Insulation must be inspected – Grade 3 not allowed
 - Option for testing or visual inspection
 - Window air infiltration less than 0.3 cfm/ft²
 - 50% of hardwired lighting must be high efficacy
- Smart appliances and systems get points
- Prescriptive path is better tailored to climate zone

Chapter 8: Water Efficiency

Headlines

- Hardest category to attain higher levels of certification under 2008 version
- Headlines
 - Added more available points
 - Improved alignment of points with water usage
 - More points available for rainwater collection and distribution, particularly multifamily
 - Advanced wastewater treatment system

Chapter 9: Indoor Environmental Quality Headlines

- Durability practices moved, except those that impair IAQ
- Sealing per 701 now mandatory
- Whole house ventilation mandatory if $ACH50 < 5$
- VOC levels set, allows independent, third-party certification (not exclusive GreenGuard)
 - VOC table listed for ease of reference

Chapter 10: Operation and Maintenance Headlines

- Few changes
- Information on stormwater practices as option
- More points for occupant training



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Available Points

Green Building Categories	Available Points	
	2008	2012
Lot Design, Prep, & Development	216	382
Resource Efficiency	231	297
Energy Efficiency (Performance Path without PV))	280	163
Water Efficiency	111	257
IEQ	215	212
Operation, Maintenance, & Owner Education	16	16



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Point Threshold Levels

Green Building Categories	Performance Level Points							
	BRONZE		SILVER		GOLD		EMERALD	
	2008	2012	2008	2012	2008	2012	2008	2012
Lot Design, Prep, & Development	39	50	66	64	93	93	119	121
Resource Efficiency	45	43	79	59	113	89	146	119
Energy Efficiency	30	30	60	60	100	80	120	100
Water Efficiency	14	25	26	39	41	67	60	92
IEQ	36	25	65	42	100	69	140	97
Operation, Maintenance, & Owner Education	8	8	10	10	11	11	12	12
Additional points from any category	50	50	100	75	100	100	100	100
Total Points:	222	231	406	349	558	509	697	641

New Chapter 11: Remodeling

- Renovations, additions, or both
- Separate section as opposed to integrated
 - No renovation or addition notes
- Similar to, but more comprehensive than, 2008 Green Remodel Path
- Applicable mandatory practices
- Energy & water reductions
- Additional points required from lot design, resource efficiency, IEQ, and Operation, but no minimum thresholds in each category

New Chapter 12: Small Projects

- Bathroom
- Kitchen
- Basement
- Small Addition
- Seeking feedback on demand, verification requirements, pricing



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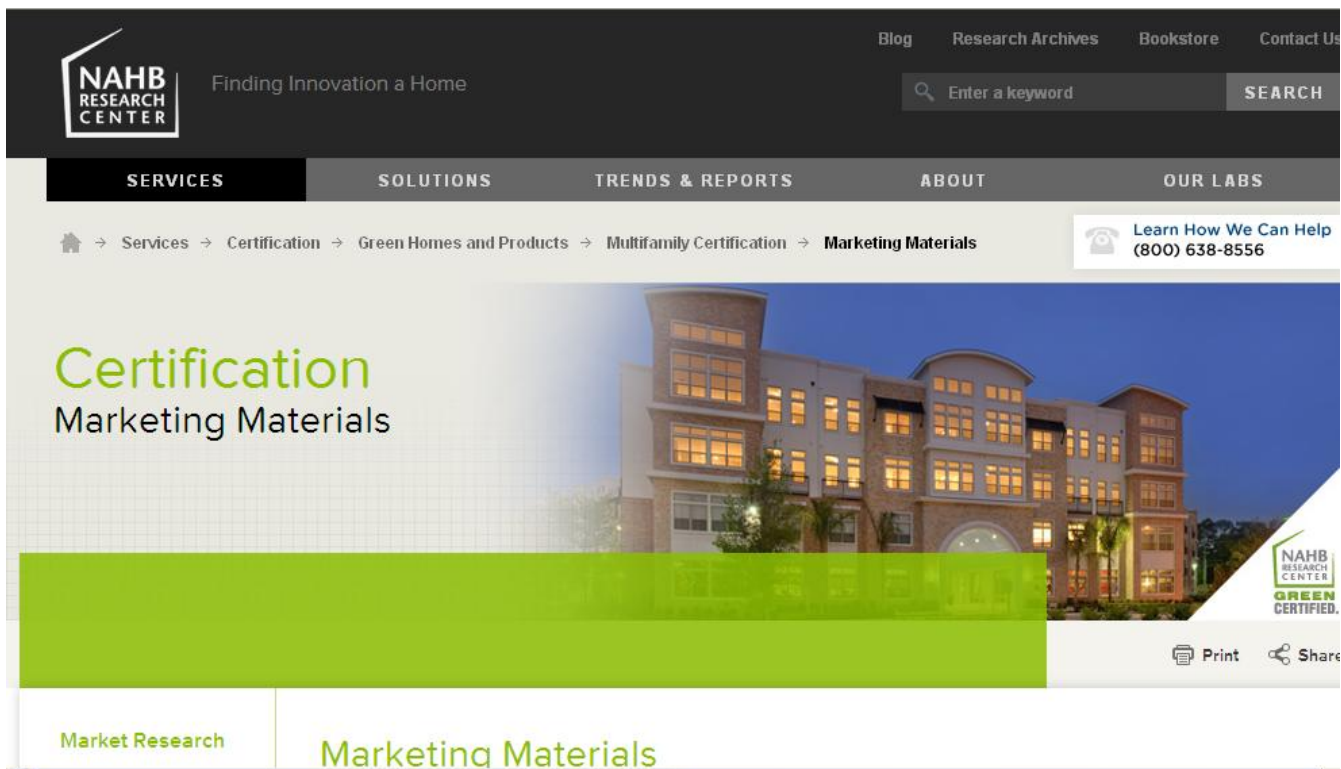
Marketing NGBS Certification Green Certification Gets a Facelift



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Marketing Opportunities

- Online
 - Company website
 - Social Networking
- Print
 - Brochures, Tech Specs, Ads
 - Home Owners Manual
- Site
 - Signage, plaques, displays
 - Sales staff training
 - Ground-breaking, Ribbon Cutting, Muddy Boot Tours: Realtors, Media, Code and Planning Officials, Appraisers, ULI / APA Chapters



<http://www.nahbrc.com/marketgreencertified>

This should be your go-to-page for all NGBS project marketing materials



NATIONAL GREEN BUILDING STANDARD BRONZE

THIS HOME REMODEL HAS MET THE STRINGENT
REQUIREMENTS OF THE NATIONAL GREEN BUILDING
STANDARD ICC 700-2008, SECTION 305.5

5225 NORTH 83RD PLACE
SCOTTSDALE, AZ 85258

PLUM TRY
G HOME BY DRE HOLDINGS
SCOTTSDALE, AZ

July 3, 2012

Date


Michael Luzier | NAHB Research Center President

CERTIFICATE #4711

SEEKING
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PROGRAMMABLE THERMOSTAT

Programmable thermostats can keep your home comfortable while you are home and reduce energy use when you are away or asleep.



OPTIMUM VALUE ENGINEERING

Advanced house framing uses less lumber so it saves trees, saves on labor costs, and reduces construction waste. Less really can be more – less lumber means more room for insulation and greater comfort.



CLOTHES WASHERS

ENERGY STAR® clothes washers use 40 to 50 percent less energy and about 55 percent less water than standard washers.



LOW-VOC PAINT

Volatile organic compounds (VOCs) are considered indoor pollutants and can cause negative impacts to people who are exposed to them. The use of low-VOC emitting paints can help to improve indoor air quality.





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100% Commitment

Marketing Enhancements for Our Committed Clients



- To promote builder's commitment of green certified homes and apartments
- Enhanced marketing benefits – unique logo, designation on website
- Interested to hear feedback and/or builder interest



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Program Footnotes

Enhancements & Additions You Should Know About



International Green Construction Code (IgCC)


- Brand recognition game-changer
- ICC 700 is alternative compliance path buildings 4+ stories
- In jurisdictions that adopt IgCC for SF and low-rise residential, ICC 700 governs
- Opportunity to promote independent, third-party certification to demonstrate compliance



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Rigorous ICC700 National Green Building Standard Certification

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Actions speak volumes —

Certification Activity Report

As of October 22, 2012



Green Certified Project Type	Total
Single-Family Homes (new & remodeled)	5,082
Multifamily Buildings (new & remodeled)	397
Units within Green Certified Multifamily Buildings	7,886
Land Developments	18
Lots within Green Certified Land Developments	983



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