

March 31, 2016

## PROJECT SPOTLIGHT: FGBC Hits 12,000 Certified Green Homes Mark

Premier Construction in Tallahassee, named one of the Top 15 FGBC builders in the state last year, has propelled FGBC to its 12,000th green home submitted for certification and Premier to its 333rd.



Premier Construction's home at 113 Cortona Hills Circle in Tallahassee was the 12,000th home submitted for certification to the Florida Green Building Coalition.

With a score of 144 and a HERS of 65, the home earned a silver level 'Florida Green' designation, verified by FGBC Certifying Agent Randy Conn, principal of ES Green & Company, also in Tallahassee.

## GreenTrends Conference Call for Presentations Opens

The Florida Green Building Coalition has opened its Call for Presentations for its GreenTrends Conference taking place in the Fall of 2016 in South Florida. This year's event will have a special focus on trending technologies and new to market products.

Submit seminar proposals pertinent to the green building residential or commercial construction industry, with emphasis on issues relevant to the southeast region of the United States. Due to continuing education requirements, only proposals that submit a completed course outline will be considered.

[[Download the Call for Presentation Submittal Form](#)].

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## Florida Building Code Update From 2016 Legislative Session

After being signed by Governor Scott, HB353 became law on March 25, 2016. Changes relating to the Florida Building Code are:

- increased the building's or dwelling unit's maximum tested air leakage measure from "not exceeding 5 air changes per hour" to "not exceeding 7 air changes per hour" in Climate Zones 1 and 2 (all of Florida)
- mandatory blower door testing for residential buildings or dwelling units as contained in section R402.4.1.2 1289 of the Florida Building Code, 5th Edition (2014) Energy 1290 Conservation, shall not take effect until July 1, 2017 and shall not apply to construction permitted before July 1, 2017.
- Section M401.2 of the Florida Building Code, 5th Edition (2014) Mechanical, and section R303.4 of the Florida Building Code, 5th Edition (2014) Residential, which became effective on June 30, 2015, shall not require mandatory mechanical ventilation unless the air infiltration rate in a dwelling is less than 3 air changes per hour when tested with a blower door at a pressure of 50 Pascals
- the minimum fire separation distance for non-fire resistant rated exterior walls shall be 3 feet or greater and non-fire resistant rated projections shall have a minimum fire separation distance of 3 feet or greater. Projections within 2 feet and less than 3 feet shall include a 1-hour fire-resistance rate on the underside. Projections less than 2 feet are not permitted.
- a restaurant, cafeteria, or similar dining facility, including an associated commercial kitchen, is required to have sprinklers only if it has a fire area occupancy load of 200 patrons or more.

## Why Measure CO2 For IAQ And HVAC?

Because humans produce and exhale carbon dioxide

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**Stay Connected**

(CO<sub>2</sub>), concentrations of CO<sub>2</sub> in occupied indoor spaces are higher than concentrations outdoors. As the ventilation rate (i.e., rate of outdoor air supply to the indoors) per person decreases, the magnitude of the indoor-outdoor difference in CO<sub>2</sub> concentration increases.

Scientific studies have demonstrated that monitoring CO<sub>2</sub> for HVAC, rather than just for temperature or humidity, can significantly increase energy efficiency and save costs. Not only that, controlling CO<sub>2</sub> emissions can enhance workplace productivity.

Researchers have shown that CO<sub>2</sub> levels above 1000 ppm can negatively impact on concentration and increases lethargy in the workplace.

Reasons for measuring CO<sub>2</sub> inside buildings:

- Productivity decreases with increasing CO<sub>2</sub> - Generally, CO<sub>2</sub> concentrations at 1,000 ppm can lead to a statistically significant decrement in decision making performance
- Generally, where large numbers of people gather then CO<sub>2</sub> will increase rapidly and lead to poor indoor air quality and pollution.
- There are certain locations where indoor CO<sub>2</sub> in an enclosed room or area can potentially reach extreme and life threatening levels.

One study found that monitoring CO<sub>2</sub> for DVC saved between 5 and 80% on energy costs compared with a fixed ventilation strategy. [[More](#)] [[Study](#)]

## Nanotech Wonders: Paint That Invisibly Cleans Air

Does the paint in your office clear the air? Now it can. A Philippines-based company, Boysen, has created the world's first air-cleaning paint. It's based on nanoscale titanium dioxide, which is used to reduce harmful emissions in power plants and motor vehicles. It interacts with light to break down nitrous oxide and volatile organic compounds (VOCs) into harmless substances.

Nanotechnology is also behind smart electrochromic glass windows that can respond to environmental conditions. These windows can be integrated with building automation systems and programmed, along



FGBC Welcomes  
New Members

**Matt Wilson**  
[David Weekley Homes - Orlando](#)  
Altamonte Springs

Quick Links

[Join FGBC](#)  
[GreenTrends](#)

[Join Our Mailing List!](#)

Education Opportunities

**April 13-14, 2016**  
**FGBC Certifying Agent Designation Class**  
FSEC  
[\[Register\]](#)

**April 21, 2016**  
**FGBC Certifying Agent Annual Verification Class**  
Fort Lauderdale, FL  
[\[Register\]](#)

**July 14, 2016**  
**FGBC Certifying Agent Annual Verification Class**  
Tampa, FL  
[\[Register\]](#)

[Energy Star Webinars](#)

[Building America Webinars](#)

Calendar of Events

**March 31-April 1, 2016**  
**Florida Association of Native Nurseries**  
**Native Plant Show**  
Osceola Heritage Park  
Kissimmee, FL  
[\[More\]](#)

**April 28, 2016**  
**SWFL Sustainability Summit**  
Bonita Spring, FL  
[\[More\]](#)

with other building equipment, to utilize natural sunshine and heat to offset the need for artificial lighting and artificial heating from HVAC. [\[More\]](#)

## Orlando Takes Aim at Power-Hungry Buildings

In a quest to become one of the country's most efficient cities, Orlando has proposed requiring owners of large buildings to publicly report their energy and water use - facing fines if they don't conserve.

The city is one of 15 in the United States moving forward with requirements that make building owners accountable for the natural resources their properties consume. More than 1,000 buildings in Orlando would be affected because they are at least 40,000 square feet, which is larger than most full-sized grocery stores.

City officials say their Building Energy and Water Efficiency Strategy is similar to fuel ratings for vehicles. It would give building tenants and buyers more information when they shop for space. In addition, publicizing usage and fining laggards could motivate owners to upgrade with more energy- and water-saving features. [\[More\]](#)

## Gainesville's Butler Plaza Scheduled for Redevelopment



After decades as a sprawling big-box and strip center shopping area, Butler Plaza will soon get into the mixed-use business with development of the Butler Town Center with apartments over first-floor retail and restaurants, a seven-story Hyatt hotel and higher-end specialty shops around walkable, landscaped main streets. [\[More\]](#)

**May 19-21, 2016**  
**AIA Annual Convention**  
Pennsylvania Convention Center  
Philadelphia, PA  
[\[More\]](#)

### Certification News

#### Homes

Registered: 12,056  
Certified: 11,986

#### Commercial

Registered: 41  
Certified: 13

#### High Rise

Registered: 47  
Certified: 12

#### Land Developments

Registered: 62  
Certified: 13

#### Local Government

Registered: 83  
Certified: 60

### Recent Certifications

#### City of Bonita Springs

Location: Bonita Springs  
Type: Local Government  
Certified: 2/9/16  
Score: 53  
Level: Gold

#### City of Delray Beach

Location: Delray Beach  
Type: Local Government  
Certified: 2/3/16  
Score: 39  
Level: Silver

### Recent Registrations:

#### Martin County

Location: Stuart  
Type: Local Government  
Size: 146,318

### FGBC Committee Meetings

#### Board of Directors

2nd Wednesday  
Monthly  
3 p.m.

#### Commercial

1st Tuesday  
Monthly

## Mobile Waste Shredder Turns C&I, C&D, MSW into Fuel

A mobile waste shredder by UNTHA is the first of its kind to shred with a low-power electric drive and, because of its on-board auxiliary power pack, it can be moved around a production facility and plugged back in, the company says.

It has been in trials across Europe and has successfully shredded municipal solid waste, commercial and industrial waste, construction and demolition waste, wood and other bulky materials to produce alternative fuels.

The new electrically driven mobile shredder, like its predecessor, the XR, can manufacture a wide range of fuels for the waste-to-energy, cement, gasifier and biomass markets. A series of interchangeable screens and cutters enable these shredders to be configured according to the output specification. [\[More\]](#)

## Vehicle Miles Traveled (VMT) Replacing Level of Service (LOS) for Project Impacts

When evaluating traffic impacts of both existing and proposed projects, state and local agencies have traditionally used the level-of-service (LOS) measure to categorize traffic. LOS is a qualitative measure which is intended to relate the quality of traffic service on a particular roadway to a given traffic flow rate. In LOS based traffic analyses, traffic facilities are rated by letters A, B, C, D, E and F, with an A rating denoting the best quality of service and an F rating denoting the worst quality of service.

Critics of the LOS method of traffic analysis have argued that by focusing on automobile delay alone, state and local agencies have encouraged urban sprawl over infill development and have done little to address or mitigate the real environmental impacts of traffic, including air quality impacts. Pedestrians and bicyclists have expressed concern that LOS prioritizes cars over pedestrian and bike safety, and discourages smart travel and use of public transit. These concerns have given rise to a movement throughout California to eliminate automobile delay and LOS based analyses as the method by which traffic impacts are studied in the state.

2 p.m.

**Education**  
1st Thursday  
Monthly  
3 p.m.

**GreenTrends**  
1st Tuesday  
Monthly  
4 p.m.

**High-Rise**  
3rd Tuesday  
Monthly  
11 a.m.

**Homes**  
2nd Tuesday  
Monthly  
2 p.m.

**Land Development**  
4th Wednesday  
Monthly  
2 p.m.

**Local Government**  
3rd Thursday  
Monthly  
10:30 a.m.

**Programs & Promotions**  
3rd Tuesday  
Monthly  
3 p.m.

## Funding Opportunities

[St. Johns River WMD Water Programs](#)

[South Florida WMD Water Programs](#)

[Southwest Florida WMD Water Programs](#)

[FHFC Multifamily Energy Retrofit Program \(MERP\)](#)

## Job Opportunities

[APA Florida Job Board](#)

[Green Dream Jobs](#)

[Florida Facility Managers Assn Job Board](#)

In 2013, Governor Jerry Brown signed Senate Bill 743, which created a process to eliminate LOS based analyses and fundamentally change the way traffic impacts are analyzed in California. The legislation required development of an alternative to LOS, which would "promote the reduction of greenhouse gas emissions, the development of multimodal transportation networks, and a diversity of land uses."

The proposed replacement to LOS is the vehicle miles traveled (VMT) method of transportation analysis. In contrast to the delay and congestion based LOS analysis, VMT analysis measures the amount and distance a particular project might cause people to drive, including the capacity of and number of passengers utilizing individual vehicles. [[More](#)] [[CA VMT Policy](#)] [[Wisconsin Smart Transportation Initiative](#)]

## The "Best Complete Streets Policies of 2015" April 12, 2016 - 1:00 PM EDT - Webinar

More than 60 communities passed Complete Streets policies in 2015, and these policies are some of the strongest and most effective ever passed. Which policies stood out as the best? Find out when the annual ranking of the best Complete Streets policies in the nation is unveiled on April 12.

Florida's top contenders are:

- Cape Coral, FL
- Longwood, FL
- Naples, FL
- Orlando, FL
- St. Petersburg, FL

Notably this year, one community has scored a perfect 100 on their Complete Streets policy. In the near decade that policies have been tracked, this is the first time a community has achieved a perfect score.

Complete Streets policies-including laws, resolutions, executive orders, policies, and planning and design documents-encourage and provide safe access to destinations for everyone, regardless of age, ability, income, ethnicity, or how they travel. [[More](#)] [[Register](#)] [[Complete Streets: A-Z](#)]

## Lumber Liquidators' Agreement Ensures Compliance with Formaldehyde Standards

Lumber Liquidators' stock rose 14 percent following an announced agreement with the California Air Resources Board (CARB) that "fully" resolves previous inquiries into its laminate flooring products sourced from China, according to MarketWatch reporter Tomi Kilgore.

The wood flooring maker will pay CARB \$2.5 million, and will implement voluntary compliance procedures to ensure all of its flooring products comply with CARB's formaldehyde standards as part of the agreement. [[More](#)]

## Open Studio Software Approved For NGBS Energy Compliance

Home Innovation has determined that Open Studio software is an accepted program for generating documents to demonstrate energy performance compliance with the National Green Building Standard (NGBS). Compliance reports submitted using this software should show the percent improvement over the 2009 IECC.

## HUD Offers Mortgage Insurance Discount For Green Certified Housing Projects

HUD announced that significant mortgage insurance premium (MIP) rate reductions will be available, effective April 1, 2016, for Federal Housing Administration (FHA) insured multifamily loans secured by buildings that attain green certification. The annual mortgage insurance premium (MIP) will change from current rates generally between 45 and 70 basis points, to 25 basis points for all multifamily FHA-insured loan types.

For properties that have already achieved a green building certification and that are refinancing with this lower MIP premium, proceeds may be used to complete further efficiency upgrades, and/or to retrofit to the next-level of the green certification standards.

Projects can instruct their lender to submit a request

to HUD/FHA that the Florida Green Building Coalition certification be approved as an accepted green building certification program for the MIP discount.

[\[More\]](#)

## Taylor Morrison, Hanley Wood Design NEXTadventure Home for IBS 2017-Orlando

Taylor Morrison and Hanley Wood's BUILDER will join in a year-long strategic collaboration initiative aimed at innovating customer care-driven design, living, and community experience for the 55+ buyer--the NEXTadventure Home. Set to break ground in June for development and construction at Taylor Morrison's new Esplanade at Highland Ranch community, in Clermont, Fla., the NEXTadventure Home will be ready for the spotlight at the International Builders Show, January 10-12, 2017, in Orlando.

Personalization, healthfulness, flexibility, fun, connectedness, privacy, durability, safety, entertainment, relaxation and comfort, efficiency, practicality, vitality, ease of operation and maintenance, dependability, adaptability, even proximity to their children and grandchildren are among the customer needs and preferences Taylor Morrison will funnel into NEXTAdventure's amped up conversation with customers, deriving inspired and bold visions, designs, and executions for each and all.

[\[More\]](#)

## 6 Benefits of Becoming a Sustainable Business

Over the past two decades, sustainability has become more than a fad or just a buzz word. Research shows that sustainability has real business benefits when conscientiously integrated into business operations. Six major advantages for practicing sustainability are:

- **Improved brand image and competitive advantage**  
58 percent of consumers consider a company's impact on the environment in considering where to purchase goods and services and are more likely to purchase from companies that practice sustainable habits.
- **Increase productivity and reduce costs**  
Development of sustainable business practices lends itself to efficient operation that streamlines effort and conserves resources, which enhances employee productivity and

reduces cost.

- **Increase business ability to comply with regulation**

With all the discussion regarding climate change, dwindling energy resources, and environmental impact, it's no surprise that state and federal government agencies are enacting regulations to protect the environment. Integrating sustainability into your business will position it to meet changing regulations in a timely manner.

- **Attract employees and investors**

People like to be associated with the positive, especially younger generations raised on a steady diet of environmental protection messages. They do not want to be linked to companies implicated in ecological disasters and social welfare scandals.

- **Reduce waste**

This effort has grown to encompass waste mitigation in paper (conserving trees and forest habitats), value engineering of products (reworking or developing new processes that use less raw materials, waste less material in production of goods), to changing out incandescent lights for LED lights (greater efficiency combined with fewer bulbs used).

- **Make shareholders happy**

Companies with high ratings in environmental, social, and governance factors outperformed the market in medium and long range terms.

For the full report [[More](#)]

## MEMBER SPOTLIGHT: Marshall Gobuty

Marshall Gobuty is president and co-developer of Mirabella at Village Green in Bradenton.



Mirabella, situated on 42 acres that formerly served as the Village Green golf course, is an innovatively designed, eco-conscious community nestled in the heart of west Bradenton and minutes from Gulf beaches. With its ideal location, beautiful climate, and laid-back atmosphere, Mirabella is

the perfect setting for a gated, "active lifestyle" community designed just for residents 55 and over.

Mirabella features resort-style villas that are LEED, ENERGY STAR and HERS certified. In fact, these are the first LEED-certified villas in Florida. Constructed by award-winning builder Synergy Building Corp., they have earned a super-efficient 62 to 64 on the RESNET HERS Index. Mirabella's energy-efficiency certifications appeal to savvy homeowners seeking energy cost-saving, healthier indoor air and a smaller carbon footprint.

With 160 homes clustered to maximize privacy, Mirabella's comprehensive package of upscale lifestyle amenities and social activities reduces the need for residents to commute to recreation. Amenities include a full-time, on-site activities director; a dog park just for residents' four-leggers; two courts for pickle ball, one of the fastest growing sports among the 55-plus crowd; a true outdoor kitchen; a huge spa; a swimming pool with lap lanes; and a fitness center designed by world-renowned celebrity trainer Joe Abunassar.

[www.MirabellaFlorida.com](http://www.MirabellaFlorida.com)