



# MIDDLE TENNESSEE CHAPTER NEWSLETTER

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## Notes from the Chair - Mike Leonard



Our Middle Tennessee Chapter has experienced tremendous growth over the years. This growth has come in the form of increased membership, increased program offerings, and growth in our connections with other professional industry groups.

With growth, however, comes increased work load. All of the actions and initiatives we take on require time and management, both of which are difficult to maintain in an all volunteer organization.

Recently, the Chapter Board of Directors approved the hire of a Chapter Coordinator to assist with immediate and long term chapter needs. I'm pleased to make this initial introduction to Teresa Wade. Teresa has a diverse background rich with experiences that make her a good fit for our chapter. I've asked Teresa to provide some information about herself, which you can read below.

I hope you all have a chance to welcome her on board as we continue to grow as a strong and successful USGBC Chapter!

Mike  
Live. Work. Play **Green**



I am grateful and honored for the opportunity to contribute to the efforts of the Middle TN Chapter of the USGBC, and assist in furthering the organization's mission and vision of expanding sustainable design.

It is apropos and ironic that I feel somewhat "recycled" for a new purpose, revisiting my roots through this association with green building efforts. My parents were entrepreneurs without formal education or support of any kind, who conserved and invested every penny to build a successful residential building/development company in Gwinnett County, GA in the 70s. I grew up in a household work ethic of sun up to sun down, going to plan B or C when the weather didn't cooperate or subcontractors didn't show up, and figuring things out by "trial and error". This influence instilled great discipline early on, and led me to study architecture at Georgia Tech, and go on to receive my BS in Interior Design from the University of Georgia. Upon graduation I decided to pursue a childhood dream of mine since starting classical piano training at age five, the dream to be a professional entertainer. In 1995 I moved to Nashville; I have been so blessed with rich experiences and rewards as an artist and songwriter, and have worn all the hats associated with being a small business owner.

I recently worked with Lipscomb University's Institute for Sustainable Practice as the Event Director for the 2009 Green Business and Living Summit and Expo event. I was responsible for all aspects of the event including fundraising, promotion, advertising, programming, and more. This opportunity stirred a desire to focus a new direction for my life to promote sustainability.

It's almost accurate to say that creativity and building something from scratch, whether it's a song lyric or a physical structure, is in my DNA. In August I will receive my MBA with a focus in negotiations and marketing from the Massey Graduate School of Business at Belmont University. I am pleased to have these new tools to assist the growth of the Middle TN USGBC chapter, and continue building on the organization's core initiatives.

David Gottfried was a single man with passion and vision that developed into the USGBC organization that is impacting the world. Every single person's effort can make a difference. Thank you for the opportunity to contribute my part to support your commitment to both professional and personal sustainable practices that can and will make positive differences far beyond what we may ever witness.

"A society grows great when old men plant trees whose shade they know they shall never sit in."  
- Greek proverb

Teresa



# Sumner County has First LEED Project Certified - Nelle Blevins

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Designed by Centric Architecture and constructed by W.T. DuBois Construction, Commerce Union Bank is the first LEED Certified project in Sumner County. This free-standing bank branch is located on the main city access within the city of Gallatin, TN.

From early in project discussions the LEED process stood out to the owners as one that would not only conserve energy and resources, but also offer employees and clients an environmentally friendly facility.

Outside, Commerce Union Bank reduced its environmental footprint by incorporating only indigenous landscaping and offering preferred parking for fuel efficient vehicles. Great care was taken during construction to minimize disturbance and pollution on site. With the help of waste prevention services from Wilmot Inc., the project was able to divert more than 95% of its construction waste from landfills, earning it exemplary performance under the LEED rating system.

Inside, The Bank features occupancy sensors on all of its general indoor lighting, as well as HVAC timers to reduce energy use during unoccupied hours. Special care was taken to use low-emitting materials throughout, as well as local materials and contractors. This not only supported a sustainable project, but allowed the bank to give back to its community by utilizing the goods and services of their own clients.

When asked about the pros and cons of the overall process, Sumner County President Paula DeBerry said that although the process was rigorous and involved many hours of documentation, overall it was very much worth the effort. "We're hoping this will start a trend here in Sumner County," she said, "with more green companies to come."



## Green Ribbon Committee Addresses Green Building Practices - Jim Giordano

On June 19, 2008, Mayor Karl Dean issued Executive Order 33, creating a Green Ribbon Committee on Environmental Sustainability and establishing the role of Environmental Sustainability Manager in the Office of the Mayor. Executive Order 33 charged the Green Ribbon Committee to recommend targets and metrics to ensure that Nashville is a leader in livability and environmental quality in the United States.

The Green Ribbon Committee is comprised of 27 citizen leaders in Nashville's business, government, environmental, education, and civic sectors with broad experience, expertise, and interest in environmental and livability issues. Four subcommittees were organized around the subjects of Building & Energy, Natural Resources, Mobility, and Education & Outreach.

The Mayor asked each subcommittee to deliver 14 recommendations – 6 quick-wins, 6 mid-term, and 2 long-term. While developing recommendations, the Green Ribbon Committee actively engaged citizens, businesses, related Metropolitan Government departments and many others during the course of its deliberations. In the end, the Green Ribbon Committee delivered 71 total recommendations supporting 16 goals.

This article highlights the recommendations that pertain specifically to green building. These recommendations are part of the work of the Building and Energy subcommittee which met for more than 300 hours. The Building and Energy subcommittee was co-chaired by Decosta Jenkins - President and CEO, Nashville Electric Service, and Tiffany Wilmot - President, Wilmot Inc.

In support of the goal to Reduce environmental impacts of buildings through green building practices, the committee made the following nine recommendations (the first a quick-win, the remaining eight mid-term):

1. Establish a "Green Building Challenge" to publicize Metro's green building practices and encourage Nashville's top 50 businesses to meet Energy Star by 2012 and LEED Existing Buildings (with a focus on water usage) by 2020.
2. Provide private-sector green building incentives, including expedited plans and reviews, high-density bonuses and fee rebates.
3. Consolidate the operation and maintenance of most Metro Government buildings, and create a new Metro energy manager position and use Energy Service Company (ESCO) to reduce energy.
4. Develop and implement a "White Roof" campaign encouraging businesses to paint or replace existing or new roofs with highly reflective ones.



5. Complete a solar installation at a high-profile public building in Nashville.
6. Adopt the Environmentally Preferred Purchasing (EPP) program for Metro Government-wide consumables, durable goods, and equipment.
7. Retrofit 10 existing Metro Government buildings to attain LEED Existing Buildings (EB) Silver certification, or comparable third party verified system, and initiate a program for retrofitting 50% of all Metro buildings.
8. All new public or publicly-funded buildings and building renovations should be LEED Silver certified or comparable third party verified system.
9. Encourage all new commercial and residential buildings to meet Energy Star

Exactly how many of these and the other 62 recommendations laid forth in the report will become reality remains to be seen. In an April address to the public, Mayor Dean pledged to fund the Quick-Wins and at least two of the Long-Term recommendations. One thing is certain, with the release of the Green Ribbon Committee's full report, Nashville has taken an important step toward the Mayor's goal to make Nashville one of the greenest cities in America.

For a copy of the Green Ribbon Committee's summary report "Making Nashville Green", which lists all 16 goals and 71 recommendations go to [http://www.nashville.gov/mayor/green\\_ribbon/](http://www.nashville.gov/mayor/green_ribbon/).

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*Jim Giordano, CEM is a contributing writer to the newsletter of the US Green Building Council of Middle Tennessee. Jim is a technology marketing and energy management professional. You can reach him at [jim.giordano@ymail.com](mailto:jim.giordano@ymail.com).*

## Public Policy and Advocacy May Mixer Great Success - Lisa Platt, IIDA, LEED AP

The first USGBC Advocacy Mixer held on May 14th at Sambuca in the Gulch was a great success! The goal of the event was for like minded decision makers in local organizations involved in building, design, development and legislation to engage in a social gathering to meet and exchange thoughts for moving forward with local initiatives.

In addition to USGBC Public Policy and Advocacy Committee members and the Middle TN USGBC board in attendance were Metro Council members, IIDA, AIA members and representatives from some of Nashville's most respected Public Relations and Legal firms.

Important alliances between the groups were formed and important

discussions took place regarding the future of Nashville and how we can all contribute to its success in its goal to achieve the status as one of the "Greenest Cities" in the US. The benefit of a unified front of organizations engaged in this type of dialogue along with the expansion resources throughout the groups will be exponential to the our local USGBC Chapter achieving goals of impacting and advising on local legislation.

In light of the attendance and productivity of the gathering The Middle TN USGBC Public Policy and Advocacy Committee hopes to make the event at minimum a bi-annual occurrence so the momentum of acting on the verbal transactions and ideas is not lost.

### Local Chapter Opportunities

Chapters are the front door to USGBC, and each one relies on dedicated chapter volunteers to be successful. Chapters offer many opportunities for you to get active and make a difference in your community. Here are a few ways you can play a part in your chapter:

- **Advocacy:** Help educate local officials and community leaders on the benefits of green building. Work to promote green building initiatives like green schools.
- **Education:** Assist with organizing LEED education programs and study groups held by your chapter.
- **Committee Involvement:** Participate on a committee (all chapters have finance, membership, and programming committees and many have others too) to help your chapter grow and become a stronger voice for USGBC and green building.
- **Communications/PR:** Help your chapter get the word out. Share your PR expertise or help develop communications tools like e-blasts and local press lists.
- **Administrative:** From data entry to number crunching, you can help your chapter get the necessary "stuff" done behind the scenes.
- **Emerging Green Builders (EGB):** If you are a student or young professional, EGB groups provide opportunities to get involved locally.



# Changes in LEED 2009 for Plumbing Fixtures and Process Water - Part II

## - Winston Huff

This is the second part of a three part series of articles covering the changes in the new LEED 09 Water Efficiency Ratings.

### PLUMBING FIXTURES

One change in LEED 2009 is the number of points that can be received by using low-flow plumbing fixtures. Prior to LEED 2009, reducing water use by 20% could earn one point.

For example, in LEED-NC Version 2.2, projects that achieved:

- A 20% reduction in water use earned one point
- A 30% reduction in water use earned two points
- A 40% reduction in water use earned three points

In LEED 2009, the 20% water use reduction is now a prerequisite. Reducing water usage by 30% earns two points. Other credits are then awarded as follows:

- A 35% reduction earns three points.
- A 40% reduction earns four points.

### New Baseline Requirements

At first glance, a project designed using Version 2.2 that reduced water by 30% should receive two points under LEED 2009. However, that may not be the case. In addition to the prerequisite change, some of the baseline rates for fixtures have decreased, making the reductions harder to achieve. See Table 1 for a comparison of the two versions. (Refer to LEED reference material for more detailed information.)

Fixture	LEED-NC Version 2.2	LEED 2009 Toilets
Toilets	1.6 gpf (3.5 gpf for blowouts)	1.6 gpf (3.5 gpf for blowouts)
Urinals	1.0 gpf	1.0 gpf
Lavatory faucets, private*	2.5 gpm at 80 psi	2.2 gpm at 60 psi
Lavatory faucets, public	2.5 gpm at 80 psi	0.5 gpm at 60 psi
Lavatory faucets, metering	0.25 gallons per cycle	0.25 gallons per cycle
Kitchen faucets	2.5 gpm at 80 psi	2.2 gpm at 60 psi
Showerheads	2.5 gpm at 80 psi	2.5 gpm at 80 psi
Pre-rinse spray Valves	N/A	1.6 gpm (no psi specified)

\*Private lavatory faucets include both residential and private commercial applications such as hotel and hospital patient rooms.

For instance, the baseline for public faucets is now 0.5 gallon per minute (gpm) instead of 2.5 gpm. Previously, this was one area where a credit could be achieved with no additional cost to the project. Since LEED was introduced, local codes and standards have changed. As a result, many areas now require 0.5 gpm public faucets. In these areas, a designer previously could design a project to code minimum and receive a credit. In 2009, this will not be as easy.

Another small change concerns kitchen faucets. In Version 2.2, the baseline was set at 2.5 gpm, but in LEED 2009 it is now 2.2 gpm. This most likely won't have the same impact as the public faucet requirement; however, it will affect some facilities with kitchen faucets.

### How the Changes Affect Obtaining Water-efficiency Points

It is important to note that obtaining LEED credits for water efficiency is different from one particular facility to the next because of the function and size of the facility. For example, some designers think that specifying waterless urinals will garner an automatic credit. However, this may not be true in buildings that have very few urinals because the urinals account for a small percentage of the building's overall water usage.

How can this change the amount of points a facility will get? For example, a residential apartment facility has the following fixtures:

- 1.28-gpf toilets or dual-flush toilets (1.1 gpf and 1.6 gpf)
- 0.5-gpm lavatory faucets
- 1.5-gpm kitchen faucets
- 1.5-gpm shower systems

Under Version 2.2, the project could achieve greater than 30% water savings and earn two points. Under LEED 2009, the project would still achieve greater than 30% savings and earn two points.

However, consider another example using the following fixtures:

- Dual-flush (1.1 gpf and 1.6 gpf) toilets
- 0.5-gpf urinals
- 0.5-gpm lavatory faucets
- 2.2-gpm kitchen faucets

Under Version 2.2, the project could achieve more than 40% water savings and earn three points. Yet in LEED 2009, it only reduces water use somewhere between 20% -30%. Thus, this project achieves the prerequisite but receives no credits.

Would you like to:

- be a member?
- be an accredited professional?
- register and certify your building?

Visit us at [www.usgbc.org/chapters/middletennessee/](http://www.usgbc.org/chapters/middletennessee/)



## Greener Alternatives to VCT - Susan Besser, ASID, LEED AP

Specifiers are continuously looking for new products that perform well, meet budgetary restraints and are environmentally friendly. VCT or polyvinyl chloride-based Vinyl Composition Tile, which replaced Vinyl Asbestos Tile in the 1970s, is the flooring workhorse in the commercial industry. It is cost effective and performs well, but requires periodic stripping and waxing and PVC is a petroleum and fossil fuel-based product.

Due to recent innovations in technology, however, new products are emerging to provide specifiers more environmentally friendly alternatives. Manufacturers of these products acknowledge the need to increase the Life Cycle Analysis scores to gain LEED credits.



Stonescape from American Biltrite

Featured in the 2005 Top Green Products, Stonescape polymer composition tile from American Biltrite of Canada is a PVC-free alternative to VCT. The flooring is comprised of limestone and Dupont's Surlyn, the material which covers golf balls. It is harder than VCT at 2,000 psi, four times quieter (a plus for hospitals and schools especially), and requires less regular stripping and waxing. Stonescape contains 45% pre-consumer recycled content and is eligible for LEED Credits MR4.1, MR4.2. This product is also marketed as Stonewalk by Mohawk. The manufacturing process incorporates pre-consumer waste, recycled dust and wastewater. Cost per square foot installed is generally in the \$2.50-\$2.70 range. This product has been installed locally at Lipscomb University.

Migrations, a Bio-Based Tile by Armstrong, was introduced at the 2007 Greenbuild Conference. It contains 10% pre-consumer recycled

content and is compliant with California 01350. Migrations is an 85% limestone-based product with Bio-Stride, a rapidly renewable ingredient produced from corn, reducing the reliance on petroleum and fossil fuels in the manufacturing process. The limestone in the product has a pre-consumer recycled content of 10% of the weight of the product. At 250 psi, Migrations has five times the impact resistance of VCT, twice the indent resistance, and more than twice



MIGRATIONS by Armstrong

the resistance to cracking. The cost per square foot ranges from \$2.50 to \$3.00 compared to \$1.50 to \$2.75 for VCT.

This product can also be used for retrofits since it is the same gauge as composition tile and can contribute to LEED credits EQ4.3, MR4.0 and MR6.0. For Middle Tennessee projects this would also provide a regional material since it is manufactured in Jackson, Mississippi. Migrations is finished in the same manner as VCT.

The benefit to a product such as Migrations is that the raw materials can be locally harvested and tile formations included in recycled content. Corn is the basis of many bio-based tiles and is a rapidly renewable material. There have been concerns regarding the fact that the production of the corn-based polymer is chemical, water, and energy-intensive. But according to industry leaders, research and development continues with improved processes and innovations from plant sources other than corn.

With environmental concerns in the forefront, innovations in bio-based tiles and PVC-free VCT will continue providing more environmentally-friendly alternatives for commercial specifiers.

TennesseeGreen.com - The Tennessean newspaper provides a wealth of local information on green building and green living. Check out former Chapter Board member Jamie Qualk's blog and many other "Green Voices" at [www.tennesseegreen.com](http://www.tennesseegreen.com).

**USGBC National** has created an online Career Center for job seekers to post resumes and search for jobs with an emphasis on green building design and construction. At the same time, employers and recruiters are given an opportunity to post job positions, search resumes, and gain access to this specialized niche. To learn more, visit [careercenter.usgbc.org](http://careercenter.usgbc.org).



# Johnson Controls Releases Energy Efficiency Indicator Report - Jamie Qualk

On May 6th, [Johnson Controls](#) released their [Energy Efficiency Indicator Report](#). Among the findings in this third annual survey and report, are that businesses are trying to make energy efficiency and carbon reduction a priority but are coming up short on follow through in investments to achieve their own stated goals.

Among the key findings included in the executive summary are the following:

**Enthusiasm for energy efficiency remains strong, but is not translating into action:**

- 71% are paying more attention to energy efficiency than they were one year ago.
- 58% continue to say that energy management is very or extremely important.

**Access to capital is constraining many business leaders from making investments.**

- Only 46% expect to make energy efficiency improvements financed with capital expenditures, down from 56% in 2008.
- 60% expect to spend less than 10% of their facilities-related capital budgets on energy efficiency.

- The two largest barriers to capturing potential energy savings are limited capital availability (42%) and unattractive paybacks (21%).

I think that many of these responses are due to a lack of understanding regarding the options available for energy efficiency and carbon reduction measures. In the case of the U.S. Green Building Council's (USGBC) Leadership in Energy and Environmental Design Existing Building rating system for Operations and Management (LEED-EB O&M), which includes existing building commissioning, the paybacks generally occur in the first two or two and half years with dramatic savings potential relating to energy. Economic worries may be the primary concern of survey respondents but based on the information available and my professional experience, this is the absolute best time to act. I don't know how companies can afford not to pursue these initiatives in today's market. The expense is low, the payback is quick and the savings are huge.

For a copy of the full report, please go here: <http://www.johnsoncontrols.com/publish/us/en/news.html>

A link to the report can be found on the right hand side of the page.

## Tennessee Forms State Advocacy Committee - Gina Emmanuel, AIA, LEED AP

The National USGBC is focused on creating a statewide advocacy committee in as many states as possible to promote, track, and get involved with green building legislation at the state level. Tennessee has recently formed such a group with representation from Memphis, Nashville, Chattanooga, and Knoxville. Representatives at the state level report back to our respective local USGBC committees for further action.

Goals for Tennessee this year are to have the mayors from the four major Tennessee cities sign the Mayor's Alliance for Green Schools ([http://www.buildgreenschools.org/action/mayors\\_alliance.html](http://www.buildgreenschools.org/action/mayors_alliance.html)), create a Green Schools Caucus in the Legislature, and support, track, and promote legislation.

Mayor Dean signed the Green Schools Alliance earlier this year and is supporting our group in pursuing mayors in Memphis, Knoxville, and Chattanooga. If mayors from these cities sign on, Tennessee would be the first state in the US to achieve such a feat.

Legislation we are currently tracking and supporting includes bills HB2318/SB2300 and HB1709/SB486. Governor Bredesen's Energy Task Force recently submitted its recommendations to the Governor and on March 31 they were unveiled at a press conference. Currently, this is in the legislature in the form of Bill HB 2318/SB2300. It requires state government to "lead by example" with improved energy management of its buildings and vehicle fleet, promoting energy efficiency in new residences with a statewide building code, and encouraging job creation in the clean technology sector with incentives. Beth Eason of Knoxville was a member of the task force and serves on our State Advocacy Committee.

The other bill (HB1709/SB486) establishes energy efficiency standards for certain products and requires the Commissioner of Commerce and Insurance to administer and enforce such standards.

You may be asking how you can find out more about these bills or others in the legislature. Just follow these simple steps and you can stay abreast of the most recent actions taken on each piece of legislation.

1. Go to <http://www.capitol.tn.gov/>
2. Create an account
3. Click on 'My Bills'
4. Search for bills by subject, legislator, or bill # and keyword. (The bills we are tracking in this session are HB2318/SB2300 and HB1709/SB486)

How can you help? Contact your legislator and talk to them about USGBC or let our Advocacy committee know if there are groups or individuals we should be talking to. Our Middle Tennessee Advocacy Committee meets at 7:15 a.m., the 2nd Friday of each month at the Provence in Green Hills (in the Hill Center by Whole Foods), and is open to all members who would like to get involved. We hope to see you there!

For more information, contact Gina Emmanuel at [gemmanuel@centricarchitecture.com](mailto:gemmanuel@centricarchitecture.com), Mark Smith at [msmith@ghp1.com](mailto:msmith@ghp1.com), or Don Green at [biogreen1@comcast.net](mailto:biogreen1@comcast.net).



# A Look at the LEED Design and Construction Process in Nashville

*An interview with Mike Cobb - Pre-Construction Manager for Solomon Builders's LEED Hopeful, Multi-Use-Development - 5th and Main.*

As sustainable construction practices move toward the mainstream, we talked with a project executive who has been through the LEED Process in Nashville. Mike Cobb, a 30 year veteran in building and construction planning and new LEED AP, gave us his thoughts on the LEED certification process for the building site - "5th and Main".

**Q: How did you decide to pursue LEED certification for this project?**

Mike Cobb: Regarding 5th and Main, We began pre-construction on this multi-use facility in 2005. At that time LEED certification and green buildings in general were a new trend. In fact, back then we only had one certified project in Nashville [Hastings Architecture Associates, LLC office]. But on this project we were working with the design team at Everton Olglesby Architects (EOA) that had several LEED accredited professionals. We naturally began to discuss sustainable design very early in the development stage. The owner along with the rest of the project design team saw the value in life-cycle-costs savings – such as operation and maintenance, which tenants would enjoy in the future. According to Ken Scalf, AIA of Architectural Energy Corporation and LEED consultant on the project, a projected payback for the incorporated sustainable strategies supporting LEED certification, would be somewhere between 4-6 years, through reduced operational costs.



**Q: What challenges and disappointments did you find with the LEED process?**

Mike Cobb: The major challenge we faced was the learning curve in understanding which members of the team were responsible for the numerous templates and other documents that had to be submitted. Then from a contractors standpoint we also had to monitor all phases of construction to make sure the right product and techniques were used to qualify for the LEED points we targeted. In this respect Solomon was fortunate to have Tiffany Wilmot as a consulting member of the LEED team for Solomon. She was of great assistance in training and creative waste management techniques. As project architect, Sheila Dial, AIA of EOA Architects noted, it was Tiffany who pushed the reuse and capture rate of on site waste up to 92% (achieving 2 LEED points). She was able to help the team achieve this recycle rate partly by re-using gypsum and delivering it to local area farmers. That is a phenomenal figure for a project of this size and scope.

**Q: Does Solomon have plans to pursue LEED on other buildings?**

Mike Cobb: We are working on at least (5) other projects presently that will seek LEED certification or at least be designed with all the sustainable elements to qualify for LEED certification. These LEED/sustainable approaches will become more common in the future and

intensive management will not be such a big deal, but we did learn a great deal about the importance of process management on the 5th and Main project.

**Q: What advice would you give a team going through that process now?**

Mike Cobb: Study all requirements for certification thoroughly. Make sure you understand what contributions your firm expects to supply the project to achieve certification.

**Q: Do you anticipate using the LEED process again?**

Mike Cobb: Oh yes, we will do it on many, many projects in the future. When you stop to think about firms planning to bid on future projects - those who have LEED accredited professionals (AP) will certainly be at a competitive advantage compared with other firms. We see a significant, growing demand for LEED certified projects in both public and private sectors in the future.

*Special Thanks for this article goes to Gregg Turner, Marshall Shumate, Kristi Taylor, Merriam Osburn and Mike Cobb of (Solomon Builders) Nashville. Other contributions include Ken Scalf\* of Architectural Energy Corporation, Shelia Dial of EOA Architects, and Tiffany Wilmot.*



**Will Stack** is a contributing writer to the newsletter of the US Green Building Council of Middle Tennessee. Will is an energy technology consultant and alumnae of Belmont University's Jack C. Massey Graduate School of Business. You can reach him at [will.stack@gmail.com](mailto:will.stack@gmail.com). Additional project pictures and LEED scorecard can be found at <http://nashvillegreen.blogspot.com/>.



The Middle TN Chapter of the US  
Green Building Council Presents

# GREEN CARPET EVENT 2009

October 9, 2009  
The Hutton Hotel  
Nashville, TN

with Green Star Awards and Auction  
to benefit Y-Build  
MARK YOUR CALENDARS  
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2009 TN ASLA & Middle TN USGBC  
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# 2009 USGBC TN ASLA joint conference OCT. 7-9, 2009

EARLY REGISTRATION ENDS  
AUGUST 14TH, 2009



# In-Home Energy Evaluation Program

Your local power distributor and TVA are making it easier than ever to become energy efficient while also saving money. With the new In-Home Energy Evaluation Program, you can reduce your power usage and receive a cash incentive or financing assistance for installing home energy improvements. The recommended energy-related home improvements you make are eligible for reimbursement of 50 percent of the installation cost, with an upper limit of \$500, or for convenient financing.

## Here's how it works:

- Contact your local power distributor to arrange for an in-home energy evaluation by a TVA-certified evaluator.\*
- The evaluator reviews your home and creates a report outlining the potential energy-efficiency modifications and available cash incentives or financing. (See reverse for list of eligible improvements.)
- Modifications must be made by a member of the TVA Quality Contractor Network, except for self-installed insulation. The evaluator will provide the names of qualified contractors.
- All home improvements must be completed within 90 days. Once the work is finished, it will be inspected to ensure that everything is installed properly to maximize savings.
- After the inspection, you submit receipts for the completed work to be eligible for the cash incentive. For financing, your contractor will be paid directly upon successful completion of the inspection.

## Cash incentive option

No matter how many modifications are made, \$500 is the maximum reimbursable amount for all work done. Some modifications have lower maximum amounts, and some require distributor pre-approval (see list).

## Financing option

Financing is available through Energy Finance Solutions (EFS), subject to credit approval. The rate is 10 to 15 percent for up to 10 years. The minimum loan is \$1,500, and repayment is directly to EFS.


For more information on the In-Home Energy Evaluation Program, incentives, and financing options, call your local public power distributor.



\* Some power distributors may charge an in-home evaluation fee. If the homeowner makes recommended improvements costing \$150 or more, the fee will be reimbursed.



These items are eligible for a 50 percent cash incentive on recommended installation measures, up to a \$500 maximum, or financing. Some items may also be eligible for federal tax credits. For information, see fact sheets available from your distributor, or go to [www.energytaxincentives.org](http://www.energytaxincentives.org).

<b>ELIGIBLE IMPROVEMENTS</b>				
	<b>ENERGY EFFICIENCY MEASURE</b>	<b>REQUIREMENT</b>	<b>CASH INCENTIVE</b>	<b>FINANCING AVAILABLE?</b>
	Replace windows	Must meet Energy Star® requirements (officially branded with a sticker)	\$500	No
	Storm windows	Must meet <i>energy right</i> ® requirements	\$500	Yes
	Duct repair/replacement & sealing	<ul style="list-style-type: none"> <li>Existing HVAC only</li> <li>Air distribution only</li> </ul>	\$500	Yes
	Rehabilitation work	Minor repair work such as broken glass, glazing or prime door replacement and Distributor pre-approval	\$250	Yes
	Replace HVAC <ul style="list-style-type: none"> <li>All heat pumps included</li> <li>Dual-fuel heat pumps</li> <li>Air conditioning (with gas pack or gas split)</li> </ul>	<ul style="list-style-type: none"> <li>Must meet Energy Star® requirements</li> <li>Distributor pre-approval for dual fuel or air conditioning</li> </ul>	\$250	<ul style="list-style-type: none"> <li>Heat pumps</li> <li>Dual-fuel heat pumps</li> </ul>
	Attic insulation/ventilation (must be nonpowered)	Must meet <i>energy right</i> ® requirements	\$500	Yes
	Floor or perimeter insulation, and ground cover	<ul style="list-style-type: none"> <li>Must meet <i>energy right</i>® requirements</li> <li>Where allowed by Codes</li> </ul>	\$500	Yes
	Exterior wall insulation	<ul style="list-style-type: none"> <li>Knee walls only</li> <li>R18 or greater</li> </ul>	\$500	Yes
	Water heater insulation	Electric only	\$50	Yes
	Air sealing (including weatherstrip and caulk)	<ul style="list-style-type: none"> <li>Must meet <i>energy right</i>® requirements</li> </ul>	\$500	Yes
	<i>Self-installed</i> insulation, caulk, weatherstrip, rehabilitation (as defined above)	<ul style="list-style-type: none"> <li>Only the cost of materials may be claimed</li> <li>Distributor pre-approval</li> </ul>	\$250	No
	HVAC tune-up	Must be performed by QCN contractor.	\$150	Yes

**The following items are not eligible for the cash incentive or financing option:**

- Water heaters (including tankless)
- Clothes washers or dryers
- Dishwashers
- Refrigerators
- Insulated garage doors
- Storm doors
- Window film/solar screens
- Radiant barriers
- Room air conditioners
- Programmable thermostats (existing systems)



# LEED Core Concepts & Strategies

Presented by the U.S. Green Building Council

This workshop provides essential knowledge of the LEED Rating Systems and sustainable building concepts for those seeking a better understanding of LEED or pursuing GBCI's LEED Green Associate (Tier I) credential. By presenting LEED concepts at the credit category level – across building types and rating systems – and basics on the building certification process, this workshop provides the foundation required for any 300-level LEED education offering. Real project examples help demonstrate and reinforce learning.

## LEARNING OBJECTIVES

After completing this course, you will be able to:

- Identify the key components of the LEED Rating System
- Discuss overall LEED Certification process
- Describe the intents and associated concepts of each LEED credit category
- Recognize successful LEED strategies and measurements for achieving credit category goals
- Explain regulations, recognitions and incentives related to each credit category

## WHO SHOULD ATTEND?

Any and all industry professionals seeking to use LEED to build green or to provide services to the building industry:

- Design Professionals
- Real Estate Professionals
- Building Owners
- Service Providers
- Product Manufacturers
- Government Officials
- Contractors
- Tenants
- Educators

## LEARNING LEVEL

Familiarity with USGBC and LEED, or USGBC's "Green Building Basics and LEED" instructor-led workshop or online program.

## CONTINUING EDUCATION CREDITS

AIA/CES HSW/SD LU:	7
CSI (CEU):	.7
BOMI (CPD):	7
IFMA (CFM/FMP):	7

## HOST



MIDDLE TENNESSEE CHAPTER

**August 6, 2009**  
**8:30 am – 5:00 pm**  
**Nashville, TN**

**MILLENNIUM MAXWELL HOUSE**  
**2025 ROSA PARKS BLVD.**  
**NASHVILLE, TN 37228**

## FACULTY

The following instructors are currently scheduled for this workshop (subject to change):

**John Adams**  
**Paula Vaughan**

COST	Before	After
	7/29/09	7/30/09
USGBC National Member*	\$345	\$375
Non-member	\$445	\$495
Student (Full-time students only)	\$150 (limited availability)	

## Registration Includes:

- Educational handouts
- Continental breakfast, lunch and refreshment breaks

For all workshop inquiries, email [workshop@usgbc.org](mailto:workshop@usgbc.org) or call 800-795-1747.

If the minimum attendance of 25 is not reached, USGBC reserves the right to cancel the workshop up to one week prior. All registered attendees will be contacted directly by USGBC in the event that the workshop is cancelled.

To register, please visit [Greenbuild365](http://www.greenbuild365.org):

<http://www.greenbuild365.org/coursedetail.aspx?ID=90000040>  
**your online portal to green building education**

**Not a USGBC National Member?**  
Visit [www.usgbc.org/membership](http://www.usgbc.org/membership) and start saving!

*\*Employees of companies that are members of USGBC National receive discounted rates on all workshop offerings and reference materials.*