

SUSTAINABILITY AT THE MUSIC CITY CENTER



Opening in May 2013, the Music City Center is certified Silver Level LEED – Leadership in Energy and Environmental Design – by the U.S. Green Building Council.

The building is a 2.1 million square feet, featuring a 353,143 square foot exhibit hall, a 57,500 grand ballroom and 18,000 square foot junior ballroom, and about 1,800 parking spaces. It also offers 90,000 square feet of meeting room space – approximately 60 meeting rooms - and 32 loading docks that provide ultimate flexibility and ease of loading in and out for convention planners.

The Music City Center makes it part of our mission to focus is on environmental sustainability.



GREEN ROOF (HEAT ISLAND REDUCTION)

One of the Music City Center's most impressive sustainable features is the green roof. Designed to mimic the rolling hills of Tennessee, the roof spans over four acres and is currently the largest green roof in the Southeast. The 175,000 square foot roof is composed of 14 different types of vegetation and a waterproofing membrane. The green roof is an integral part in our overall sustainability plan, helping to reduce energy usage by absorbing heat and acting as an insulator to reduce the amount of energy needed to provide heating and cooling to the facility. The waterproofing membrane extends the life of the roof by protecting it from UV rays and wind and by absorbing rainwater, thus reducing the amount of storm water runoff. The green roof helps to lower urban air temperatures by reducing the "heat island effect" and also helps reduce air pollution and greenhouse gas emissions. The vegetation on the roof provides a natural habitat for plants, insects and wildlife that would otherwise have limited space in an urban environment.

WATER CONSERVATION

The Music City Center has implemented a successful comprehensive water management plan. All toilets, urinals and faucets in the MCC utilize low flow technology and are equipped with sensor technology to reduce overall water usage. Storm water runoff and condensate from HVAC equipment is collected in a 360,000 gallon rain water cistern, which provides water to over 500 toilets/urinals and irrigates outdoor landscaping. The MCC also uses water-efficient landscape materials that are climate appropriate and native to our region in order to reduce the amount of water needed for irrigation. Our comprehensive water management plan has the capability to reduce our facility's overall water usage by 40%.

ITEMS RECYCLED AT MCC INCLUDE:

CARDBOARD, MIXED PAPER, AND OTHER PAPER PRODUCTS
ALUMINUM
PLASTIC
PALLETS/ WOOD WASTE
TONER/PRINT CARTRIDGES
BATTERIES
FLUORESCENT LIGHT BULBS
FOOD WASTE
ELECTRONICS

THE MCC DONATES ALL LEFT OVER REGISTRATION MATERIALS TO METRO SCHOOLS THROUGH LP PENCIL BOX.



WWW.PENCILFD.ORG/PENCIL_BOX

OTHER DISCARDED EVENT ITEMS ARE DONATED TO OUR OTHER PARTNER NOT-FOR-PROFIT ORGANIZATIONS.

RESPONSIBLE PURCHASING

The MCC purchasing department works with our Sustainability Coordinator to identify and purchase the best environmentally friendly products and supplies for the facility. We purchase renewable resources such as bio-based solvents from citrus, seed, vegetable and pine oils, cleaners in concentrates, and reusable/recycled containers.

GREEN OPERATIONS

The Music City Center plans to reduce the facilities environmental footprint by increasing and promoting recycling, buying of green office supplies, utilizing green printing/copying procedures, and assisting customers in hosting green meetings. Our “Green Team” comprised of MCC staff members, contractors, and IATSE Local 46 members to initiate new sustainability practices, educate fellow team members, and ensure current procedures are followed. In an effort to increase awareness and ensure participation, we require every contracted vendor to meet our sustainability standards and all potential vendors must complete a sustainability survey which allows MCC to assess their commitment to the environment.

GREEN CONSTRUCTION/ BUILDING MATERIALS

Designed by Atlanta-based TVS Design, Nashville-based Tuck Hinton Architects, and Moody-Nolan Architects, the 2.1 million square foot Music City Center was designed and constructed with sustainability in mind. Our facility is certified Silver Level LEED – Leadership in Energy and Environmental Design – by the U.S. Green Building Council. The MCC received two LEED points for “Innovation in Design” for having 100% of the parking undercover and a 40% water reduction plan. Our high performance building envelope is equipped with a four-acre green roof, a 200-kilowatt solar panel system and energy efficient technology. The Music City Center’s construction theme was “reduce, reuse, recycle”, earning us a Brownfield Redevelopment credit for reusing an already-developed location which prevented additional loss of open space in our city. Our goal was to make construction as low-impact as possible by diverting at least 50% of our waste stream during construction to recyclables and by using local building suppliers and 90% recycled glass within our facility. Our state of the art high-performance HVAC systems uses the Nashville District Energy System steam and chilled water which significantly reduces the amount of refrigerant used in the facility and also decreases our overall energy consumption.

QR CODES are located on signs throughout our building to mark our sustainability initiatives.

To use to QR Code from your phone:

1. Download an app that reads QR codes.
2. Use that app to take a photo of the QR Code.
3. The QR code will connect you to our website where you can learn more about sustainability at the MCC.

ENERGY CONSERVATION

Optimization of energy systems were attained by utilization of enhanced energy modeling established during the design and construction phase. High-Performance HVAC systems have been utilized throughout the facility. Variably frequency drives are used throughout the facility to enhance motor, fan and pump performance. Proper performance and energy-operation of HVAC systems is insured by the MCC established Operations and Maintenance Program (O&M). Building lighting systems are controlled by our state-of-the-art automated lighting control program. Occupancy sensors are utilized throughout the facility to reduce overall consumption of electricity, and both HVAC and lighting systems are maximized by utilizing scheduling programs to improve efficiency. An array of 845 solar panels aligns our roof producing renewable energy to assist in powering our HVAC fans throughout the building.

INDOOR AIR QUALITY

The MCC implemented an indoor air quality control plan and used only low emitting VOC materials (adhesives, sealants, paints, coatings, carpet, composite wood and agrifiber products) during the construction process. The MCC will continue to use green cleaning chemicals to maintain good indoor air quality, specifically chemicals that have a low volatile organic compound content. MCC avoids the use of any and all corrosive and strongly irritating substances. The high-performance HVAC systems and high efficiency air filters help to reduce allergens and dust thus improving overall air quality



For more information regarding the MCC sustainability initiatives contact:

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