



LAS VEGAS' CITYCENTER ONE OF WORLD'S LARGEST GREEN DEVELOPMENTS

*CityCenter, a Leader of Sustainable Urban Development,
Driving Green Economies of Scale in Multiple Industry Segments*

LAS VEGAS – Created with a vision to bring a new level of environmental consciousness to the world-famous Strip, [CityCenter](#) is one of the world's [largest sustainable developments](#), from design and construction to operations and guest amenities. The U.S. Green Building Council has awarded LEED® Gold certification to ARIA Resort & Casino's hotel tower, convention center and theater, Vdara Hotel & Spa, Mandarin Oriental, Las Vegas, Veer Towers and Crystals retail and entertainment district. This marks the highest LEED achievement of any hotel, retail district or residential development in Las Vegas. Using cutting-edge solutions, CityCenter has been able to grow responsibly without sacrificing the quality of materials or guest experience.

Due to its size and purchasing power, CityCenter is driving green economies of scale in multiple industry segments, paving the way for other entities to build and operate sustainably. In November 2009, the Forest Stewardship Council-US (FSC-US®) honored CityCenter as the best commercial project of 2009 in the fifth annual Designing & Building with FSC Awards. CityCenter's dedication to the use of sustainably harvested FSC-certified wood products is unprecedented in scale and resulted in a significant market transformation, including multiple wood suppliers receiving their FSC chain of custody certification to supply wood to the development. CityCenter has moved beyond existing green practices to empower industry-wide innovations.

Key Sustainable Highlights

- First energy generation on The Strip through its 8.5-megawatt, natural gas co-generation plant, providing efficient electricity on site (10 percent of overall CityCenter use), reducing emissions and using "waste heat" to provide all domestic hot water at CityCenter, including within its numerous pools
- Water conservation technology and programs save approximately 40 percent of water within the buildings and 60 percent in outdoor landscaping, for an overall savings of approximately 50 million gallons annually
- World's first fleet of stretch limos powered by clean-burning compressed natural gas (CNG)
- Development of slot machine bases that serve as displacement ventilation units, efficiently cooling guests from the ground up, rather than wasting energy on empty space by cooling from the ceiling
- Energy-efficiency initiatives will provide a savings equivalent to powering 8,800 households annually
- Creation of a large-scale recycling operation that enabled the recycling or reuse of more than 260,000 tons of construction waste, more than 80 percent of the imploded Boardwalk Hotel
- Collaborating with the nation's foremost sustainability and LEED consultants, CityCenter introduced more than 10,000 construction trade and craftsmen to green building techniques that can be implemented at future developments

"CityCenter captures the energy and diversity of Las Vegas in one of the world's largest green developments," said Jim Murren, chairman and CEO of MGM Resorts International. "Designing CityCenter with sustainable elements and practices reinforces its permanence and creates a healthier environment for our guests and residents, as well as for the 12,000 people who work at CityCenter."

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SUSTAINABILITY EFFORTS

Construction and Recycling

- The Boardwalk Hotel was imploded to make way for CityCenter. Eighty percent of the previous structure has been recycled into the building materials or sent elsewhere for reuse. Crushed blocks and mortar were used in dust abatement on the construction site and as aggregate in concrete and asphalt; recycled whole and broken glass, and bathroom fixtures were shipped to other countries for reuse after being wrapped in Boardwalk curtains and carpets as recycled packing materials
- 95 percent of all construction waste that would have ended up in landfills was recycled
- Ventilation systems were completely sealed until installation, which protected them from the dust, smoke and harmful particles present on a construction site. No smoking was allowed on the site once the ventilation was sealed, ensuring vastly higher indoor air quality
- CityCenter used Forest Stewardship Council (FSC) wood, only taken from forests with responsible management practices. Low volatile organic compound (VOC) paints were used, along with enough sustainable certified carpet to cover 140 American football fields
- Reclaimed water from the neighboring Monte Carlo Resort & Casino was used for dust control in place of precious drinking water, which contributed to savings of 2.4-million gallons of potable water
- A concrete batch plant allowed concrete to be generated on site saving gas and energy
- Each room was carefully sealed to prevent migration of tobacco smoke ensuring freshness and comfort for each guest

Design

- Each tower has energy-efficient exterior features to help reduce the heat transfer from the sun onto the buildings, including air-brows, reflective rooftops, specially coated windows and high-performance glass
- CityCenter worked with manufacturers to invent designer water fixtures that deliver incredibly satisfying, pressurized showers while using a third less water
- Outdoor landscaping was carefully selected to provide a beautiful array of native desert plant life, which is watered through a highly efficient irrigation system. The system is equipped with moisture controls to ensure watering is only done when necessary
- Marquees, signs and slot machines are energy efficient

Operations

- CityCenter offers sustainable options for meetings, conventions and events by incorporating environmentally responsible practices and services including sales kits constructed from recycled paper; ARIA's banquet server uniforms also are made from recycled polyester
- CityCenter employees have undergone LEED training as part of orientation, educating them about CityCenter's green initiatives and how to do their jobs in line with the development's green focus
- Many restaurants focus on farm-to-table ingredients, buying produce, meat and dairy direct from responsible local growers
- Spas are committed to using organic or wild-crafted paraben-free products, the implementation of a recycling program and use of recycled paper for spa materials
- CityCenter utilizes green cleaning practices within the hotels, using products that minimize concerns to human health and the environment. Additionally, the areas where chemical use occurs are negatively pressurized with separate outside exhaust and no recirculation of air
- All of CityCenter's facilities have integrated recycling programs

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Guest Experience

- For the highest quality, environmentally sustainable travel, CityCenter commissioned the world's first fleet of CNG stretch limos. The 26 silver, 24-foot Lincoln Town Cars are 100 percent dedicated to utilizing CNG. In addition to abundant U.S. natural gas reserves, CNG is one of the cleanest-burning alternative fuels available
 - Natural gas used by the CNG stretch-limo fleet produces significantly lower amounts of harmful emissions such as nitrogen oxides (35-60 percent less), particulate matter (90-97 percent less), carcinogenic and toxic pollutants such as carbon monoxide (90-97 percent less) as well as the greenhouse gas carbon dioxide (25 percent less). *Source: U.S. Department of Energy*
- Guests arriving at CityCenter via carpool or in alternative-fuel vehicles have access to preferred parking spaces; bicycle valet services also are provided
- The urban community offers numerous amenities within walking distance of the hotels, including restaurants, stores and entertainment. The CityCenter Tram provides convenient transportation between Monte Carlo, Crystals and Bellagio
- Extensive natural light is utilized through skylights and expansive windows at CityCenter to reduce energy use
- Many of the artists participating in CityCenter's public Fine Art Collection used reclaimed materials in their works of art. For instance, Maya Lin's "Silver River," an 84-foot cast of the Colorado River, is made from 100 percent reclaimed silver; CityCenter's sustainability initiatives inspired her first work of art in Las Vegas. Nancy Rubins' gravity-defying "Big Edge" includes recycled river and ocean vessels and Isa Genzken's steel and aluminum rose contains 75 percent recycled materials

CityCenter not only redefines the Las Vegas skyline, but transforms the destination into a global showcase of urban design and sustainability.

About CityCenter

CityCenter is an unprecedented urban metropolis on 67 acres between Bellagio and Monte Carlo resorts on the Las Vegas Strip. CityCenter is a joint venture between MGM Resorts International (NYSE: MGM) and Infinity World Development Corp, a subsidiary of Dubai World. CityCenter features ARIA, a 61-story, 4,004-room gaming resort; luxury non-gaming hotels including Las Vegas' first Mandarin Oriental and Vdara Hotel & Spa; Veer Towers, the development's only strictly residential buildings; and Crystals, a 500,000-square-foot retail and entertainment district. Vdara, Mandarin Oriental, Las Vegas and Veer Towers include approximately 2,400 residences total. CityCenter also features a resident Cirque du Soleil production celebrating the timeless musical legacy of Elvis Presley; and an unparalleled Fine Art Collection with works by acclaimed artists including Maya Lin, Jenny Holzer, Nancy Rubins, Claes Oldenburg and Coosje van Bruggen, among others. CityCenter is a design collaboration between MGM Resorts International and eight internationally acclaimed architectural firms including Pelli Clarke Pelli, Kohn Pedersen Fox, Helmut Jahn, RV Architecture LLC led by Rafael Viñoly, Foster + Partners*, Studio Daniel Libeskind*, David Rockwell and Rockwell Group, and Gensler. At the forefront of sustainability, CityCenter is the world's largest private green development. ARIA, Vdara, Crystals, Mandarin Oriental, Las Vegas and Veer Towers all have received LEED® Gold certification by the U.S. Green Building Council. This marks the highest LEED achievement for any hotel, retail district or residential development in Las Vegas. The Harmon Hotel has been postponed until such time as CityCenter determines to proceed with its completion. For more information about CityCenter, please visit www.citycenter.com.

* As a consultant to AAI Architects, Inc.

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** *For press materials, video and images visit www.citycenter.com*

Media Contact:

Sandy Zanella
MGM Resorts International Public Relations
(702) 650-7565