

AEG'S 2018

SUSTAINABILITY REPORT





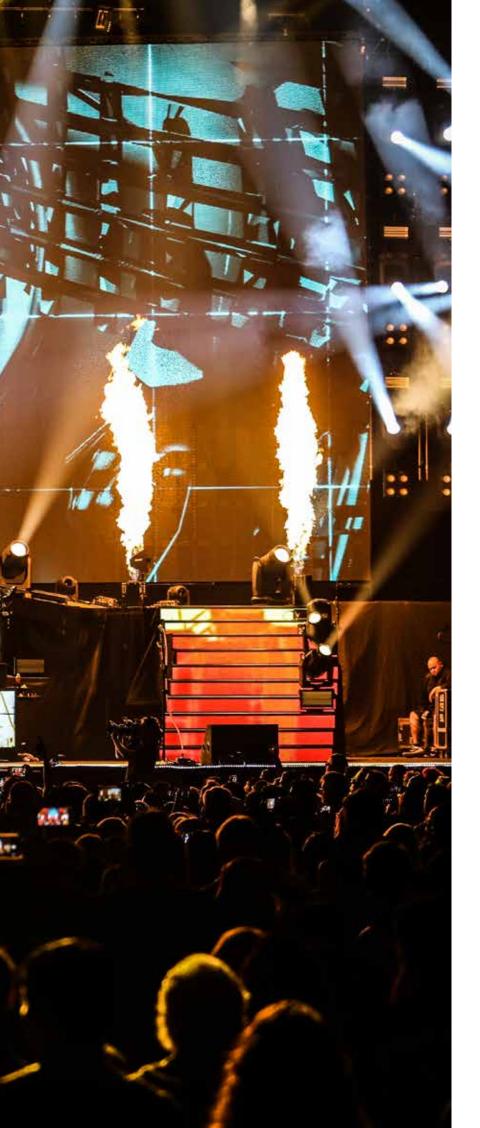


TABLE OF CONTENTS

INTRODUCTION5
Letter from President & CEO6
Interview with Ted Tanner 8
ABOUT AEG10
ABOUT AEG 1EARTH13
2020 ENVIRONMENTAL GOALS18
Greenhouse Gas Emissions
Water
Waste
COMMUNITY ENGAGEMENT38
EMPLOYEE SPOTLIGHTS40
CASE STUDIES44
2017 MEMBERSHIPS & RECOGNITIONS54





A Message from Philip F. Anschutz

It's been a decade since AEG first launched its global sustainability program, AEG 1EARTH. Over the past ten years, the company has woven environmental sustainability into its worldwide business units and I am incredibly proud of the initiatives that AEG has pioneered in the sports and live entertainment industry.

In 2017, AEG undertook a number of LEED certification projects and reaffirmed its commitment to green building practices. Today, the company's LEED-certified venues total more than eight. But AEG's dedication to sustainability extends far beyond new building practices: As this report illustrates, the company has many innovative programs that are designed to help it meet its 2020 Environmental Goals of cutting greenhouse gas (GHG) emissions, reducing potable water use in water-stressed areas, and increasing its waste diversion rate.

While AEG's 2020 Environmental Goals are aggressive, the need for environmental sustainability today is greater than ever before. From new construction, to existing facilities, to its ongoing operations, AEG will continue to integrate sustainable practices and adopt innovative new technologies because the company recognizes that it can play a significant part in helping to protect our planet's limited resources.

I invite you to read AEG's 2018 sustainability report to get a better understanding on how the company is tackling environmental issues and I thank you for being a valued member of our AEG family.



Letter from the President & CEO

A decade ago, we charted a new course for AEG with the launch of our corporate sustainability program, AEG 1EARTH. When we started the program in 2007, not many in our industry were focused on their environmental footprint. But, as our company began to grow at an exponential rate, we started rethinking our mission and the impact we have in the world. We realized that

for AEG, sustainability wasn't just a good practice, but it was essential for our business, our planet, and our communities.

In this year's report you will find an "Anniversary Spotlight" for three of our most iconic properties—L.A. LIVE, The $\rm O_2$ and Mercedes-Benz Arena in Berlin. Each of these projects drove transformation and growth in their respective cities by revitalizing blighted urban areas into thriving sports and entertainment districts. In addition to being the catalyst for long-term positive change in their communities, they also exemplify AEG's commitment to finding efficiencies in our operations to make a difference.

Today, fans around the world expect us to be responsible corporate citizens and we believe that that we need to earn their respect through our actions. While I am proud of the efforts we continue to make toward reducing our GHG emissions, decreasing our water consumption, and diverting our waste, I recognize that there is more work to be done.

For the venues and events that have been a part of our portfolio since 2010, we have been able to reduce our GHG emissions by 18%. With respect to our water goal, we've reduced water consumption by about nine million liters for operations located in water-stressed regions, whereas our waste diversion dropped by a few percentage points to 55%. We have done a great job reducing our footprint overall in the facilities that have been part of our long-term operations, but we need to diligently continue our efforts to mitigate the impact of new assets in our portfolio as we continue to grow our business.

As we move forward in the year ahead, we will continue to be vigilant in our efforts to improve our performance and have several key initiatives that should enable us to accelerate our work in these critical areas. On the GHG emissions front, we will continue to invest in energy efficient upgrades and renewable energy. At the same time, we are supporting innovating technologies that should help us to reduce our company-wide water demand, and piloting new waste initiatives to minimize single-use plastics across our operations globally.

As a leader in the sports and live entertainment industry, we believe that AEG has a commitment to the communities where we operate to make a positive difference, and we take our responsibility seriously. The principles of AEG 1EARTH are built into the very core of our company and those fundamental beliefs drive our business decisions. It is this commitment that I believe sets AEG apart. I want to thank you for your interest in our company and I look forward to continuing to update you on our progress.

Sincerely,

Dan Beckerman

Muner



Interview with Ted Tanner

This year to celebrate the 10th anniversaries of our major sports and entertainment district projects, John Marler, VP of Energy and Environment, interviewed the mastermind behind these projects, AEG's Ted Tanner, Executive Vice President of Real Estate Development. Ted is a great supporter of the AEG 1EARTH program and mentor to the team.

Ted, can you tell us how the L.A. LIVE concept came about?

When I first joined AEG in 1998, the city of Los Angeles was looking for development projects that would bring economic growth and opportunities to Downtown Los Angeles (DTLA). A prime motivation for the city was to clean up the blight and high crime activities adjacent to the Los Angeles Convention Center (LACC) and to leverage a private arena investment as the principal change agent. We had already broke ground with STAPLES Center, but we knew we had to create an entertainment district that would complement the arena and be conducive to visitors, as well as DTLA workers and residents.

How confident were you that this vision was the right vision for a sports and entertainment district, and for the community of Los Angeles at that particular time?

It was a bold vision without precedent, a big bet that had many doubters. We had a mostly receptive city leadership that was facing many challenges: DTLA was at a crossroads, with new rail transit coming on line to address air quality and stifling traffic congestion, and with relatively low land values caused by disinvestment, incompatible land uses, and high crime. Approaching this situation, it was very important to us to be a great neighbor and to ensure we kept the interest of the community as a core principle. In the end, our \$3.5 billion investment attracted other companies to invest in the neighborhood, resulting in the unprecedented level of development we are seeing today. We have been good for surrounding communities by providing jobs and job training programs geared to poverty zip codes, affordable housing, day care facilities, neighborhood open space, and over \$100 million in charitable donations.

What is your perspective on environmental sustainability and how does this impact your approach to design and development of sports and entertainment properties?

I view this as an essential "given," embedded in the design, development, and operations of our building projects. We've seen time and time again that there is a business case associated with sustainable best practices. This includes thoughtful site planning, building orientation, façade treatment, bringing natural light and air into spaces, and encouraging walkability and bicycle use. It's good for business long term, not a PR soundbite or a series of boxes to check off.

What are some of your favorite sustainability features of the AEG projects you've worked on? Are there any elements you would change today if could go back in time?

I am gratified that we have taken some of the worst, most blighted, or contaminated urban sites and transformed them into massive reinvestment and regeneration vehicles for their respective cities. This includes the vacated Millennium Dome on one of the most contaminated industrial sites in London, a dilapidated and abandoned rail yard in East Berlin, and a blighted zone around the city's convention center in LA. I'm proud that our company takes these goals seriously enabling our LA Ritz Carlton Hotel and JW Marriott Hotel and new T-Mobile Arena to achieve LEED Silver and Gold. If I could go back and change anything, I would encourage building fewer parking stalls and incentivize alternate travel modes for work trips. In my view, alternative transportation has dramatically changed, and will continue to change, our approach to these kinds of projects.

Looking into the future, what are some key environmental trends that will impact the design and operation of sports and entertainment venues and districts?

As you would expect me to say, mobility will be key. We need to reduce parking and encourage transit and shared ride options. We also need new lighter, renewable building materials, and improved mechanical systems to recycle wastewater and improve air quality. I am excited to see new initiatives such as the solar arrays, waterless urinals, and fuel cells at STAPLES Center.



Headquartered in Los Angeles, California, AEG is the world's leading sports and live entertainment company.

AEG Annually

100+ Million

10,000+

22,000+

150+

Guests Entertained

Shows Performed

Live Events

Venues Owned, Operated or Affiliated with AEG

40+

Music Festivals

50+

Sports Franchises Owned or Hosted at AEG-affiliated Venues **50%**

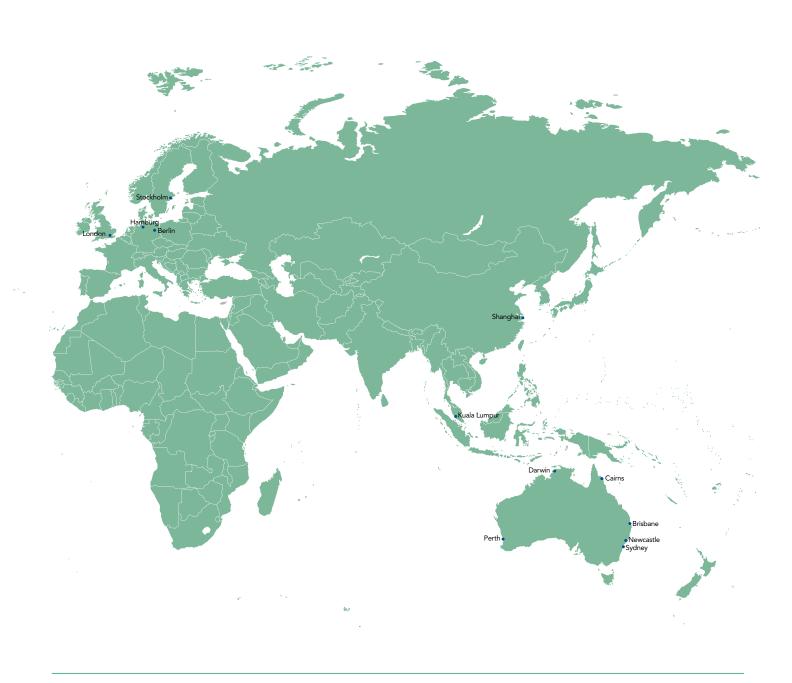
of Tickets Sold Worldwide in Top 10 Arenas 20+

of the Top 100 Arenas are Affiliated with AEG



For more than 20 years, AEG has played a pivotal role in transforming the live entertainment industry. Through our global network of venues, powerful sports franchises, music brands, integrated entertainment districts, ticketing platforms, and global sponsorship activations, we deliver innovative experiences that give the world reason to cheer.

More information about AEG can be found at www.aegworldwide.com.







About AEG 1EARTH

AEG 1EARTH was first created in 2007 with the goal to drive business value by minimizing our company's environmental footprint. Our goal is to serve as an industry leader in environmental program implementation and stewardship through a partnership with our fans, employees, partners, and communities. In 2017, we celebrated our 10th year of success under the AEG 1EARTH program. Today, more than 80 sports and entertainment venues, teams, and festivals around the world track monthly environmental performance metrics through AEG 1EARTH.









Greenhouse Gas Emissions

In 2017, AEG's global facilities and events emitted 188,593 metric tons of greenhouse gas (GHG) emissions. This represents a slight reduction in our emissions compared to our 2017 Base Year, but we are still 19% short of our goal for the year.

As we stated in last year's report, meeting our 2020 goal will be difficult because a growing percentage of our emissions are from operations that we acquired since 2010: In 2017, acquisitions accounted for 53% of our emissions. However, for those operations that have been in our portfolio since 2010, our emissions this year were 18% lower than our Base Year levels. This underscores that our efforts to reduce emissions are paying off.

Furthermore, based on the updated emission factors recently published by U.S. Environmental Protection Agency and the International Energy Agency, our 2016 aggregated emissions decreased 5% from 181,093¹ to 171,333. This revision reflects the positive results that renewable energy technologies are having on the carbon intensity of grid electricity. In some areas of the U.S., carbon intensity of grid power has fallen nearly 30% from 2010 to 2016.

While we recognize that we still have work to do with respect to reducing our carbon emissions, we are continuing to employ a range of tools to drive continuous improvement.

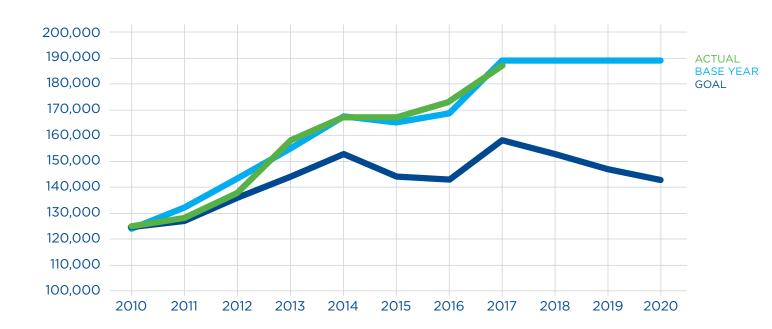
Starting in 2018, with the help of our founding partner GASAG, the Mercedes-Benz Arena in Berlin is now sourcing 100% renewable electric power and is purchasing carbon offsets for 100% of its natural gas consumption.

Additionally, in April 2018, the City of Los Angeles completed the installation of 2.21 megawatt solar photovoltaic panels on the roof of the Los Angeles Convention Center. As a result of the new panels, the convention center will now generate 17% of its electricity from an on-site, fully emissions-free energy source.

While we believe that these two projects are solid first steps, moving forward we will continue to pursue using energy efficiency upgrades and investments in renewable energy as core tools for reducing our carbon footprint across our global portfolio.

¹Our historic annual GHG emissions have changed from what was previously stated in AEG's 2017 sustainability report to reflect updated eGRID (Emissions & Generation Resource Integrate Database) emissions factors for the U.S. electric power industry emission factors published by the U.S. Environmental Protection Agency (EPA) and updated international factors published by the International Energy Agency (IEA).

2020 GOAL PROGRESS - GHG EMISSIONS (metric tons of CO₂e)



ANNUAL GHG EMISSIONS (metric tons of CO₂e)

YEAR	2010	2011	2012	2013	2014	2015	2016	2017
Scope 1	21,387	20,745	23,193	28,178	28,190	29,303	36,278	37,966
Scope 2	104,476	108,469	115,927	131,712	140,573	139,348	135,056	150,627
TOTAL	125,864	129,214	139,120	159,890	168,764	168,651	171,333	188,593



ANNIVERSARY SPOTLIGHT

The O₂

The O_2 we know today began life as the Millennium Dome, originally built to celebrate the start of the third millennium in 2000. After sitting vacant for several years, the venue was renovated, rebranded, and reopened to the public in June 2007 with a Bon Jovi concert in the new arena under the tent.

2.4 million tickets sold later, The O_2 celebrated its 10^{th} anniversary in 2017.

Having started life as a massive "reuse" project, in the last decade, The $\rm O_2$ has implemented a range of environmental initiatives to continually improve operational efficiency and reduce its environmental footprint. For example, in 2012 the district installed 22 kilowatts of rooftop solar panels and began sourcing the vast majority of its electric power supply from renewable sources. Three years later, The $\rm O_2$ completed its transition to 100% renewable electricity, transitioning its final "brown" power accounts to renewable energy, reducing carbon emissions by about 30,000 metric tons.

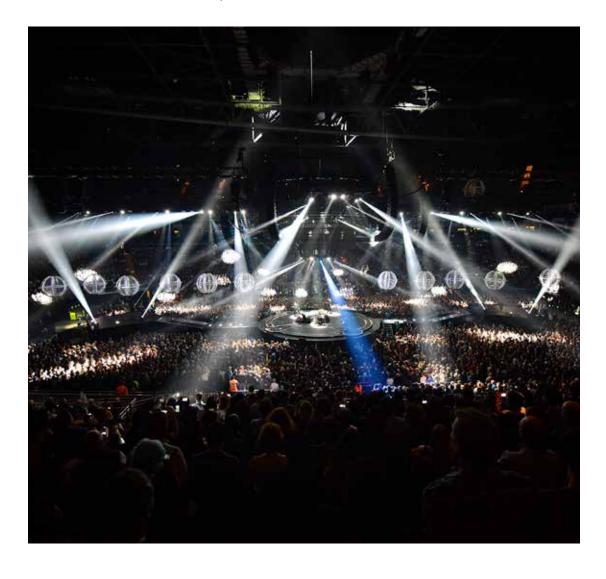
In 2017, The $\rm O_2$ completed a multi-year effort to retool its already robust waste operations. Since the beginning, the site has relied on a back-of-house recycling program to manage the different streams of recyclables and waste, including operation of an on-site wormery to compost food and generate fertilizer. With over 30 waste collection points situated throughout The $\rm O_2$, the venue commissioned an audit to measure the amount of staff hours spent collecting and transporting waste from collection points to the venue's onsite central waste compound.

"The audit determined our cleaning staff was spending 60% of its time just transporting waste, leaving little time to actual process and sort it," states Trevor Speed, Head of Support Services for The O_2 .

As a result, the venue installed a waste transfer packer and five mini compactor pods. The waste transfer packer effectively compacts waste twice, reducing hauling needs by about 50%. In conjunction with the new compactor, the venue installed mini compactor pods in five major bin rooms to reduce the amount of staff time needed to transfer waste to the central waste compound. Each compactor pod is equipped with a load sensor, which sends out a signal to the waste team when the bin is at 80% capacity.

"In the past, we transported over 50 1100-liter bins on a daily basis just from one waste collection point. With our new mini compactors, we can wait three to four days before transporting waste to our central waste compound."

The $\rm O_2$ not only processes its own waste, but also now manages waste operations for the Intercontinental Hotel, Ravensbourne College, the Transport for London building, and commercial units on Peninsula Square.











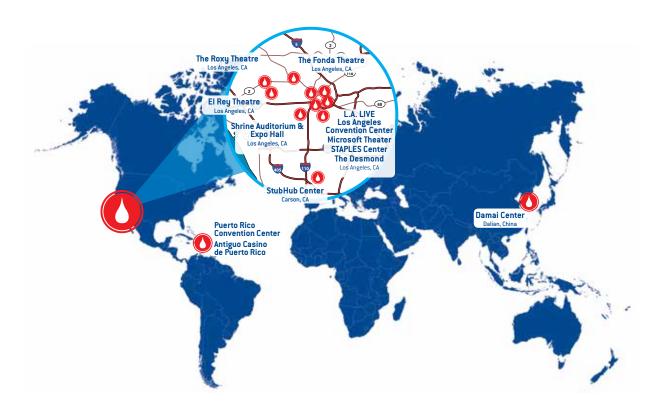


Water

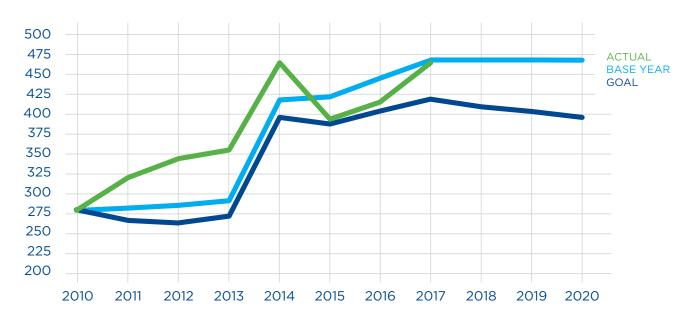
In 2017, 14 locations in AEG's portfolio of facilities and events were classified as "water-stressed sites," which we define as any site located in regions that have high or extremely high "overall water risk" by the World Resources Institute's Aqueduct™ tool.

These 14 sites collectively consumed 458 million liters of potable water in 2017, which represents a saving of more than nine million liters of water compared to our Base Year. While we are pleased to see that our overall water consumption is below Base Year levels, we fell short of meeting our 2020 goal this year at our water-stressed sites due to organic growth that resulted in increased water usage at the StubHub in Carson, CA and at the Los Angeles Convention Center, in Los Angeles, CA. Last year, StubHub Center began operating as the temporary home for the NFL's Los Angeles Chargers, while the Los Angeles Convention Center experienced a significant increase in bookings under AEG's management.

Over the same period of time, we continued to implement water conservation projects at our non-water stressed sites worldwide, even though these are not accounted for in our goals. For example, in London, The $\rm O_2$ installed sensor flow taps in approximately 20% of its arena toilets to reduce unnecessary water consumption. The complex also installed flood check units in the majority of its kitchens and concessions to help detect any unusual flow of water. Across town, the Eventim Apollo started a major refurbishment project to the theater's restrooms that will lead to significant water efficiency savings through the installation of better fixtures. While the bulk of our efforts are focused on conserving potable water at our water-stressed sites, we remain committed to exploring ways to reduce consumption wherever we can because we believe it is the right thing to do.

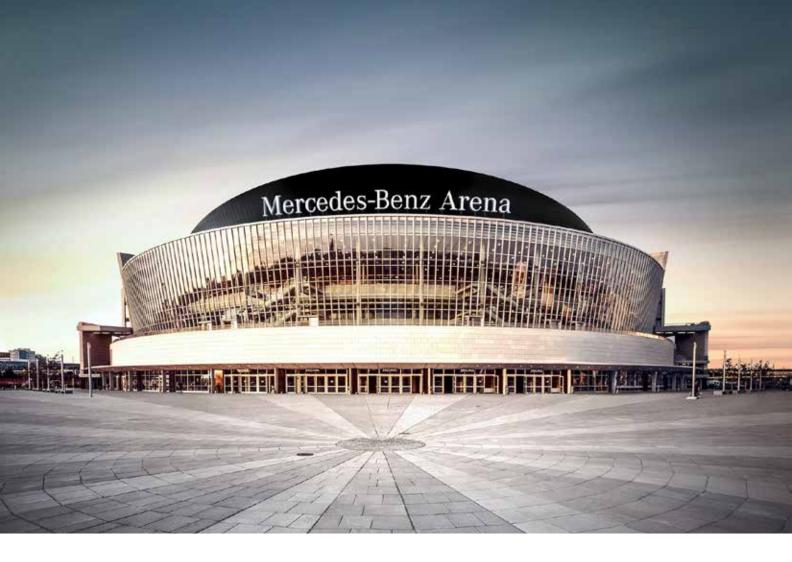


2020 GOAL PROGRESS POTABLE WATER USE AT WATER-STRESSED SITES (million liters)



ANNUAL WATER USE (million liters)

	2010	2011	2012	2013	2014	2015	2016	2017
Potable Water	969	1,100	1,304	1,505	1,771	1,695	1,779	2,005
Recycled Water	147	137	165	149	197	221	184	129
TOTAL	1,116	1,237	1,469	1,654	1,968	1,917	1,962	2,134



ANNIVERSARY SPOTLIGHT

Mercedes-Benz Arena, Berlin

AEG's Mercedes-Benz Arena in Berlin is home to the seven-time DEL Champions, Eisbären Berlin. Hosting 142 events and nearly 1.2 million guests in 2017, the arena has put environmental sustainability at the forefront of its agenda since the building first opened in 2008.

In 2013, Mercedes-Benz Arena worked with its founding partner and exclusive energy supplier, GASAG, to install a natural gas-powered cogeneration plant on its roof to reduce its greenhouse gas emissions and enhance its energy efficiency. The plant produces 90% of the energy and heat the facility needs and has shaved its peak energy load by about 400 kilowatts. It is reducing Mercedes-Benz Arena's GHG emissions by an estimated 570 metric tons annually, which is equivalent to taking about 120 vehicles off the road. The plant has also strengthened Mercedes-Benz Arena's relationship with its sponsor, GASAG, and opened the door to more GHG-reducing projects.

One of these projects was the installation of new absorption chillers between 2015 and 2017. By replacing the three existing compression chillers that provide cooling for the ice surface in the arena, the venue reduced its energy load by 40%.

As of January 2018, the Mercedes-Benz Arena is purchasing Renewable Energy Credits (RECs) to zero out 100% of the carbon emissions associated with its purchases of electric power. The arena's energy is sourced through hydroelectric plants in Northern Europe and is certified with

the RenewablePlus label by TÜV Rheinland. Emissions caused by natural gas consumption will be offset with ÖkoPlus credits associated with a hydroelectricity project in Malana, India.

"Both measures will further reduce the carbon footprint of the Mercedes-Benz Arena. Together with our energy partner GASAG we have found a way procure climate neutral energy without increasing our energy costs," says Michael Hapka, General Manager of the Mercedes-Benz Arena.

In addition to going carbon-free in 2018, the Mercedes-Benz Arena has pushed other sustainability initiatives in recent years. As part of its Earth Month activities in 2016, the arena partnered with a local non-profit organization, City Bees e.V., to install two bee colonies on its roof. The colonies are cared for regularly by an expert beekeeper and any harvested honey produced by the arena bees is packaged and given to staff members and arena partners.

"We understand the critical impacts pollution can have on our environment, and we are worried about the worldwide decline of bee colonies. With the great variety of trees and plants around our venue and the proximity of the river, we can offer ideal conditions for bee cultivation on our roof," explains Astrid Grimlitza, Director of Human Resources.

While there is a great focus on operational efficiency, the Mercedes-Benz Arena doesn't forget to communicate these projects to the public and to engage its guests. Whether it be working with sponsorship partners to create new activations like GASAG Energy World, which allows visitors to see their own body heat through the use of a thermal camera, or celebrating annual environmental campaigns like Earth Hour, the team is always looking for ways to raise sustainability awareness amongst the millions of spectators it hosts each year.













Waste

AEG's company-wide diversion rate decreased by a few percentages points, falling from 58% in 2016 to 55% in 2017. Our diversion rate has stayed relatively constant year-to-year since 2014 and we will need to make significant improvements to achieve 70% diversion by 2020.

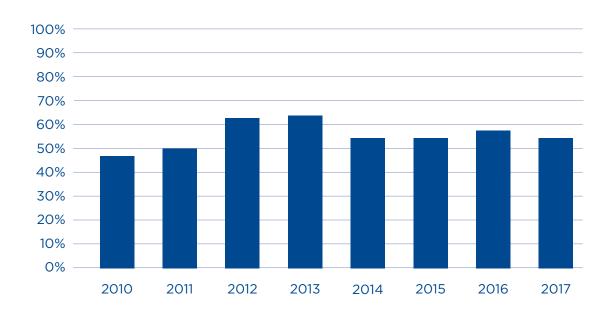
The past year we have seen several major developments in the area of waste and recycling that impact our strategic approach to waste diversion:

First, in July 2017, China announced its "National Sword" policy, and started enforcing very strict limits on contamination in recycling streams. The policy has hit countries like the U.S., Australia, and the UK hard, as historically they have exported a significant amount of recyclables to China. Now, recyclables are either piling up at facilities, or are being sent to landfill. We see this as a wake-up call to not only our industry, but all industries, and are working to improve our on-site sorting operations.

Second, the subject of food waste continues to be a focus around the globe. At several venues we instituted food waste collection and on-site processing programs. Also, in 2017 AEG 1EARTH joined the United States Composting Council to further educate ourselves about best practices for food waste prevention and organics recycling.

Finally, the past year saw a lot of attention on plastic waste. Several governments are taking steps to ban single-use plastics, and more are considering similar bans. Given that our industry is still dependent on single-use products like beverage bottles, serviceware, and condiment packages, we need to adapt to these changes and work to retain a leadership position on this issue. At the moment, we are in talks with our various food and beverage concessionaires to audit our serviceware usage to minimize the amount of single-use plastics distributed during our events. For example, we are looking at opportunities to install more water refill stations at our festivals and venues and are in the process of piloting a new company-wide straw initiative to eliminate plastic straws and only offer ocean-friendly paper straws upon request.

2020 GOAL PROGRESS - WASTE DIVERSION RATE (%)



ANNUAL WASTE GENERATION (metric tons)

YEAR	2010	2011	2012	2013	2014	2015	2016	2017
Waste to Landfill	8,228	7,965	7,967	7,452	11,045	11,974	12,534	13,773
Waste to Energy	1,548	1,543	3,697	6,820	6,876	7,504	8,721	7,852
Recycled Waste	5,884	6,443	9,233	5,423	6,901	7,701	8,579	9,215
TOTAL WASTE	15,660	15,951	20,897	19,694	24,822	27,179	29,834	30,840



ANNIVERSARY SPOTLIGHT

L.A. LIVE

Located in downtown Los Angeles, L.A. LIVE is a sports and entertainment district that annually welcomes more than 20 million guests and hosts more than 500 events from sports, concerts, festivals, film premieres, and award shows. AEG pioneered a new model for real estate development that for the first time integrated an entertainment district with a sports facility that enhanced the downtown experience.

Built in 2007, L.A. LIVE helped transform the Los Angeles landscape and set the stage for future development in the downtown area. Situated between STAPLES Center, Microsoft Theater, and The Ritz-Carlton Hotel, L.A. LIVE was built with sustainability in mind.

In 2009, management installed water-efficient toilets, waterless urinals, and low-flow faucets throughout the facility. As California's drought worsened in 2015, L.A. LIVE re-examined its water footprint to identify new opportunities to conserve water. L.A. LIVE re-landscaped 50 planters with drought-tolerant plants and further reduced watering schedules to minimize water used for irrigation. L.A. LIVE's janitorial partner, ABM, adjusted its cleaning practices to further reduce water use. The engineering team also installed a water softener system on the central cooling tower, decreasing water use by an estimated 6.8 million liters annually. Collectively, these changes allowed L.A. LIVE to reduce annual water use by over 22 million liters in 2017 compared to 2014.

"I am very proud of our team's focus on sustainability and finding new ways to reduce our use of natural resources. Each department has engaged in creative thinking and found great new solutions to meet our goals. From the Engineering team led by Paul Flanagan and Logan MacPherson to the Building Managers Blanca Diaz and Mark Clay. Everyone participates, it's a team effort," states Jim Madsen, SVP of L.A. LIVE Operations

In addition to its water conservation efforts, in 2014 L.A. LIVE retrofitted over 15,000 lights in its West and East parking garages to LEDs, saving almost 1,500,000 kilowatt-hours each year and enhancing the lighting experience for the parking garages. Furthermore, starting in 2015 L.A. LIVE became an original participant in Los Angeles Department of Water and Power's demand response (DR) program. As a participant, L.A. LIVE reduces its energy consumption during hot summer days when the Los Angeles grid is stressed, helping to minimize the use of inefficient "peaker" plants to meet system demand.

What sets L.A. LIVE apart, is its dedication to engaging its tenants and guests. For example, in 2012 the operations team developed a Green Kitchen Stars incentive program. The program is geared towards educating restaurant tenants on how to set up robust waste diversion initiatives in their back-of-house kitchen area. This program recognizes employees and restaurants with the highest monthly diversion and participation rate.

"The L.A. LIVE Operations team understood that continuous education and encouragement would drive restaurants to participate in recycling and disposing of organics responsibly. With great support from upper management, we created the Green Kitchen Star program. The program includes weekly inspections of the organics and recycling bins inside the kitchens to determine if they are properly used and by who. This incentive program has definitely sparked competition within the restaurant kitchen employees and the best part of it is that it has brought awareness to our recycling effort," explains Blanca Diaz, Building Manager for L.A. LIVE.

L.A. LIVE celebrates multiple environmental campaigns throughout the year. Since 2008, the district has joined iconic facilities around the world by participating in Earth Hour, the world's largest global action for climate change. Additionally, L.A. LIVE partners with STAPLES Center and Microsoft Theater to host annual campus-wide recycling drives in honor of Earth Day and America Recycles Day. These combined efforts accounted for 23,898 pounds of e-waste and donated clothes in 2017.

Community Engagement

Being in the business of live entertainment, we realize one of our greatest assets is our platform. Every year our events bring millions of people together. Whether it be a concert, sporting event, festival, or convention, for a few hours we have the opportunity to bring people from different backgrounds and communities together. How we utilize our platform is incredibly important to us, and it's a responsibility we take seriously. We encourage our fans to join our environmental campaigns and initiatives, with the hope that our events will inspire them to take action beyond the few hours they are with us.

Here's a look back at some of our 2017 fan and community initiatives.

LA KINGS GREEN

Launched in the 2016–2017 season, LA Kings Green is the LA Kings' dedicated sustainability program designed to reduce the team's environmental footprint and help create a greener Los Angeles by supporting local environmental projects. New this season under the LA Kings Green umbrella is the G.O.A.L.S. program, in partnership with Blue Shield of California, which empowers students to seek greener solutions as well as lead inclusive, healthy, socially responsible, and knowledgeable lives.





TANGALOOMA ECOMARINES

For the second consecutive year, the Brisbane Convention & Exhibition Centre (BCEC) teamed with Tangalooma Ecomarines (TEM), a Brisbane-based non-profit organization committed to the protection of local marine wildlife, to help develop environmental leadership amongst students in the local community. BCEC nominated six employees as TEM Ambassadors and hosted the TEM end-of-year celebration.

BEE KIND MN, INC.

Target Center, home to the Minnesota Timberwolves and Minnesota Lynx, is now also home to native bee colonies. The idea first came about when 14-year-old Nikolas Liepins challenged Target Center to help promote biodiversity in the community by placing two native bee houses on the arena's green roof. Nikolas is a student at St. Paul Academy and Summit School, and Founder and COO of BEE Kind MN, Inc. a non-profit organization that aims to provide homes for the rapidly declining native bee populations.



IN 2017

AEG venues and businesses worldwide celebrated Earth Month

AEG venues worldwide celebrated Earth Hour

AEG venues and businesses nationwide celebrated America Recycles Day



GRID ALTERNATIVES

In 2017, the LA Kings, LA Galaxy, and AEG partnered with GRID Alternatives, a non-profit organization that installs solar power for lowincome families, to implement two solar installs in the Los Angeles area.

Employee Spotlight

The success of the AEG 1EARTH program would not be possible without the commitment from our full-time and part-time employees. We thank all our employees for their ongoing dedication to the sustainability of our company's operations.

Below is a showcase of the environmental work executed by our stellar employees and their take on environmental sustainability.



RON MARTIN
Maintenance Manager • KFC Yum! Center

Having grown up in a more rural setting and spent my formative years working on farms, I have always had a great appreciation for the earth and have seen firsthand how our interactions with it make an impact. Now that my children and most of our society is more removed from agrarian experiences, it is important for me to be a role model and an

advocate for sustaining the health of our planet, including reducing energy, water, and fossil fuel use as well as using sustainable materials and recycling whenever possible. In 2017, I worked on a capital project to install bamboo flooring on the suite levels at KFC Yum! Center. We selected bamboo not only because of its durability but also because of the reduced environmental impact required to procure the material and care for it in the future.



JOANNA ZHAO Marketing Manager & PR • Mercedes-Benz Arena, Shanghai

Air pollution is real problem in China. While the public is becoming more aware of this issue, there's still a lot of work to be done. As the pioneer in China's live entertainment industry, Mercedes-Benz Arena is already taking a range of actions to address environmental sustainability. In 2015, we launched our venue sustainability program, Mercedes-Benz

Arena Green. It is a new and meaningful program for both the venue and myself, giving me the opportunity to take responsibility for my own day-to-day habits and how I can better incorporate sustainability in my life. My favorite environmental initiative I work on is Earth Hour. Our venue has celebrated Earth Hour for the past three years, leveraging social media and sponsorships to raise awareness amongst our fans. Throughout the years I've seen our fans become more invested in these environmental initiatives, and I'm really proud of how far our team has come.



CLINT TINGEYVenue Services and Compliance Manager •
Darwin Convention Centre

Sustainability is very important to me both personally and professionally. I consciously exercise best practices at home and implement sustainable systems and procedures at work. Since working for AEG Ogden, I have benefitted significantly from the AEG 1EARTH team and other AEG

venues about new environmental methods and ideas to improve our footprint. The ability to share ideas and learn how other venues have overcome similar issues has been invaluable. I now have a deeper understanding on the impact of plastics on our environment. I am excited that AEG Ogden is making this topic one of our main focuses within our venues. The Darwin Convention Centre has recently partnered with a local farmer who collects our discarded food. All food products no longer go to landfill and every piece of food is donated. Since December 2017, 100% of the centre's discarded food has been donated, reducing our overall environmental impact.



LAURA GODDARD

Corporate Social Responsibility (CSR) Executive • ICC Sydney

Sustainability, for me, means stepping outside of our own world view to look at the impact had on others at an individual, local, and global scale; and then taking actions to ensure those impacts are positive ones. I think when we look at sustainability from an events perspective, it means looking up from the drawing board and envisaging how an event not

only creates a meaningful experience for delegates, but how it contributes to the local and global landscape around it. In the short time I've been at ICC Sydney I've experienced the breadth and scope of some extraordinary initiatives. The launch of our Event Legacy Program in November, and the enthusiasm and engagement that has followed, has been a highlight thus far. The program is multi-streamed, connecting event clients with a diverse range of community organizations, educational institutions, startups, and industry leaders across Sydney, and has led to the creation of some great community partnerships.



ROHAN BHASINSenior Manager, Facility Services • Barclays Center

To be completely honest, I didn't incorporate sustainable initiatives into my day-to-day workload until I joined AEG, just over two years ago. Since then, I've been able to work on projects related to energy efficiency, waste reduction, green purchasing, and working with our partners to educate patrons entering the building on these topics and

why they are important. As for why sustainability is important to me, simply put, it's imperative to care for our environment as it has a direct impact on future generations. If I'm able to contribute in some way that will make the world a better place in the future, then I'm all for it. One of the bigger initiatives we're currently working on is to increase our recycling rate year-to-year. This past year, our hauler installed two split compactors in our Compactor Room. The two splits have four different waste streams—trash, organics, single-stream recycling, and cardboard. We have worked with our housekeeping and F&B partners to implement new policies and procedures with the primary focus being on increasing our recycling rate.



NENAH BONDIMarketing Design Specialist • AEG

My passion is driven by the word "sustain-ability." Anything that is not able to sustain itself simply does not make sense to me. You wouldn't build a house on a faulty foundation, so why would you build a business, a society, or anything else without sustainability as the primary focus? I would love to work on Earthships one day. Earthships are forward

thinking self-sustaining homes built entirely out of recycled materials. The house collects all its water from the roof, its power from solar panels, and can grow food inside for a family of four.



TONY MINCEYGeneral Manager • Brooklyn Steel

I find sustainability to be very important. I want my grandchildren and their children to experience nature's beauty in its truest form. My favorite sustainability initiative at Brooklyn Steel has to be our green rooftop and our bees. Yes, we have a green roof. It serves as a sound barrier and looks great to those neighbors who can see it. Also it goes

without saying, it's good for the environment. To help maintain the green roof we installed bee hives. The bees naturally pollinate the grass and keep our roof healthy.



JUSTIN FERREIRADirector of Festival Operations • Goldenvoice

My team oversees the day-to-day operations and maintenance of Goldenvoice's Indio properties, including the El Dorado Polo Club. We keep sustainability top-of-mind and always try to find a second life for what some may perceive as "waste." My favorite sustainability quote is one from Benjamin Franklin: "When the well is dry, we know the worth

of water." With that said, the most exciting sustainability project I work on is one we get to do multiple times a year. We save all of our scrap lumber and tree trimmings in our nursery and higher a tub grinder to process this material. Once the material is ground up into small pieces, we mix it with the horse manure from the horses at the El Dorado Polo Club and let it sit. After 8–10 weeks of watering and turning the pile, we have compost to plant trees with around the property. During Coachella and Stagecoach, we work with our caterer and food vendors to collect food waste. As an added bonus, we put that into our pile for a better mix.



BROOKE DIFRANCOManager, Sales • Agora Theater

I have to be honest and admit that it was only recently that I became someone who consciously practices sustainability. I have always been aware and accountable to some degree, but for me, there was always this lack of education on the topic. A few years ago that changed when my husband and I bought our home. With home ownership came a

hyper- awareness of how much gas, water, and electric power we were using as a household. That also translated to my work life. We are doing our part to take care of the earth by reducing food waste at the Agora Theater. We have partnered with the Rustbelt Riders in Cleveland, a local group of composters that work with dozens of restaurants and organizations to have a positive impact on the environment and the community. They assist their clients by turning food waste directly into local food production. We are starting with our administrative offices and hopefully expanding to the entire venue and backstage food waste.



TREVOR SPEEDHead of Support Services • The O₂

My children are half Norwegian and visit Norway at least twice a year. Although Norway has a robust recycling program from household waste right through to commercial waste, their fjord shorelines are now becoming littered with waste especially plastics. This is a heart-breaking but sadly not an isolated problem and I feel passionate about reduction

and education. This has to happen from an early age to engage and encourage the next generation into looking after our planet. The reduction of on-site waste transportation is an ongoing but very rewarding project here at The O_2 . The site is so big we almost operate as a small town and with our neighbouring businesses i.e. the commercial units on the peninsula and the Intercontinental Hotel also being clients, we have over 30 waste collection points. We wanted to question the historical practice of sending out operatives on waste carts towing empty bins to exchange for full ones and then bringing them all the way back to a central waste compound. In partnership with our service provider, we adopted and tested a method from the Netherlands where waste is compacted at source in mini one-ton compactors called pods. We now have five working pods and have the first pod transfer packer, specifically built for The O_2 where the pods can be emptied, resulting in double compaction. This means less collection, less vehicles on our roads, and a reduced carbon footprint.

CASE STUDIES

Our employees, guests, and partners support the AEG 1EARTH mission to reduce our company's environmental impact and drive business value through sustainability. The following case studies are some of the projects, initiatives, and achievements from our company in 2017.

Los Angeles Convention Center

The Los Angeles Convention Center (LACC), located in Downtown Los Angeles, recently received California's highest environmental honor, the 2017 Governor's Environmental and Economic Leadership Award (GEELA), for its ongoing sustainability efforts, which include:

- 12 new EV charging stations divided between its West and South Hall parking garages
- A "cool roof" and light-diffusing windows to reflect sunlight and direct heat away from the building
- New water-efficient kitchen dishwashers
- Replacement of 30,000 square feet of turf with drought-tolerant landscaping

"Sustainability and energy efficiency are core values at AEG Facilities," says Brad Gessner, Senior Vice President and General Manager at LACC. "At the Los Angeles Convention Center, we have adopted the strategies of AEG 1EARTH and constantly strive to be innovative and reach new goals to better our environmental impact in the city of Los Angeles and the greater state of California."

Most recently, in December 2017, LACC unveiled its new roof garden. A great deal of planning went into the construction of the garden including a preliminary analysis to determine weight limitations, and meetings with LACC's landscapers to confirm the right irrigation plan and vegetation to plant. The new roof garden includes citrus trees and herbs, which will be used in LACC's food and beverage operations.

"Sustainability and energy efficiency are core values at AEG Facilities."

In 2017, the LACC installed new LED lights in its South, West, and Kentia exhibit halls. In total, over 2,000 new lights were introduced, cutting exhibit hall demand by just over 500 kilowatts, or half a megawatt. The new lights are expected to save over 700,000 kilowatt-hours a year.

Looking ahead, LACC will power up a new 2 megawatt solar photovoltaic array in 2018, which will supply approximately 17% of the building's electric power and decrease the center's GHG emissions.

Fiddler's Green Amphitheatre

Jack Johnson kicked off his 2017 tour in June, stopping at 17 U.S. venues, including Fiddler's Green Amphitheatre in Greenwood Village, Colorado. As part of the 2017 tour, Johnson and his team worked closely with AEG Presents Rocky Mountains to execute successful sustainability measures during the two-night stop at the Fiddler's Green Amphitheatre.

"The main priority was to work with the tour to minimize the use of single-use plastics."

"The main priority was to work with the tour to minimize the use of single-use plastics," states John Caprio, General Manager, Fiddler's Green Amphitheatre. "We had to rethink our existing waste strategy, because we wanted to ensure that our team could support the tour's sustainability mission from an operations standpoint."



To get things started, John and his team worked with their waste hauler to improve signage and bin placement to help guide guests on how to properly dispose recyclable waste. The Fiddler's Green team then looped its food and beverage concessionaire to create and promote a reusable pint cup program, providing fans with an alternative to disposable plastic cups. In addition to its pilot pint cup program, the Fiddler's Green operations team installed new water refill stations on the north and south concourse to support guests who want to fill their own reusable water bottles.

Highlights from Fiddler's Green sustainability initiatives include:

1

3,233 pint cups sold as part of the reusable pint cup program, eliminating over 4,000 single-use cups

2

504 pint cups distributed to fans as prize giveaways

3

Displacement of 3,465 16-ounce single-use water bottles through fan and crew use of refillable bottles at water stations

"Given the overwhelming success of our pilot pint cup program during Jack Johnson's concerts, we are now looking into different options to implement a long-term reusable cup program for future shows at Fiddler's Green."

Sign Language XL (SLXL)

Based in Denver, Colorado, AEG-owned Sign Language XL (SLXL) is one of the U.S.'s leading digital printers. SLXL is the official printing partner for venues like STAPLES Center, L.A. LIVE, StubHub Center, and Pepsi Center, among others. While the printing industry has a historic record of having a large environmental footprint due to ink and substrate usage, SLXL implemented new strategies in 2017 to minimize the amount of waste generated during its operations. For example, SLXL partnered with one of its local material vendors to start participating in a free recycling program to recycle all plastic-based material waste. Both press operators and finishers are now able to recycle plastic-based material waste. Material scraps are picked up from SLXL's vendor several times a month and sent back to a manufacturing plant to be extruded down to their raw form and recycled into new material. Previously, SLXL only offered an office recycling program for copy paper and cardboard, but its new initiative allows its production facility to get involved too.

"Both employees and customers take comfort in knowing we are taking additional steps to reduce our footprint wherever possible."

"Both employees and customers take comfort in knowing we are taking additional steps to reduce our footprint wherever possible. Many of our customers are looking for better alternatives to lessen their environmental impact, whether that be with recycled and recyclable materials, or finding centers to recycle their materials after an event," explains Beth Steele, Sr. Manager for Client Support.

In 2018, SLXL plans to move to a paperless workflow, keeping all work orders, client documentation, and invoicing digital.



International Convention Centre Sydney (ICC Sydney)

ICC Sydney, Australia's new premier convention, exhibition and entertainment venue, delivered an outstanding first year of operation, generating \$785 million in direct delegate expenditure for Sydney and its communities.

Building on an impressive economic impact in 2017, the venue was also recognized for its contribution to reducing environmental impacts, receiving a Gold Leadership in Energy and Environmental Design (LEED) certification from the U.S. Green Building Council (USGBC) for various efforts including:

- The reuse of 100,000 cubic meters of concrete from the original brownfield site
- 2 Incorporating 96% recycled steel in its exhibition halls
- 3 Installation of a highly efficient central energy plant and building management systems
- 4 Australia's largest electric car charging station system with room for 25 vehicles

ICC Sydney eliminated over 775,000 plastic bottles

Committed to operating in a socially responsible and environmentally sound manner, ICC Sydney has further developed a number of initiatives to improve on waste management, water consumption, and energy use throughout the facilities. In 2017, the venue announced a partnership with Sydney Water to help reduce the venue's environmental footprint, swapping out plastic water bottles for reusable glass pitchers topped off with Sydney Water tap water. Through this partnership, ICC Sydney eliminated over 775,000 plastic bottles in the first year of the program, indirectly reducing greenhouse gas emissions by 400 metric tons, the equivalent of removing 86 cars from the road for a year.

"ICC Sydney is pursuing a number of progressive partnerships to create impactful sustainable models and by serving tap water, we're reducing our overall direct environmental impact," states Geoff Donaghy, ICC Sydney CEO.

In 2018, ICC Sydney will launch a series of new partnerships and initiatives to focus on improving waste management across the venue and will be working closely with event clients through its multi-streamed Legacy Program to connect delegates with a diverse cross section of Sydney's vibrant community.

Sustainability at the 2028 Summer Games

On September 13, 2017, the International Olympic Committee formally awarded the City of Los Angeles the 2028 Summer Olympic and Paralympic Games, bringing the Games home to Los Angeles for a third time.

The vision for the LA 2028 bid was simple—utilize LA's existing world-class venues to host the Games, eliminating the need for new permanent construction. LA 2028 formed a Sustainability and Legacy Committee consisting of 50 different organizations and thought leaders, including AEG, to support the bid's mission to deliver an environmentally, financially, and socially sustainable Games, with a lasting, positive impact on the LA community. Additionally, LA's bid was privately funded, solely relying on private donors.

Four AEG venues will host the Olympic and Paralympic events, including StubHub Center, STAPLES Center, Microsoft Theater, and the Los Angeles Convention Center. StubHub Center, LA 2028's South Bay Sports Park, is designated the "Green Sports Park" and will showcase AEG's innovative technology like its 1-megawatt array of Tesla batteries and LED sports lights.

The vision for the LA 2028 bid was simple—utilize LA's existing world-class venues to host the Games, eliminating the need for new permanent construction.

"We are proud to work with LA 2028 because we believe that LA 2028 presents a unique opportunity for sustainability efforts worldwide. With zero permanent construction required to deliver the Games, LA 2028 eliminates one of mega-events' biggest carbon footprint and allows a greater focus than ever on innovative green solutions for a truly sustainable Games with positive impacts on the community and wider region," states Katie Pandolfo, General Manager for StubHub Center.



NYCB Live, Home of the Nassau Veterans Memorial Coliseum

NYCB LIVE, home of the Nassau Veterans Memorial Coliseum, located in Uniondale, New York, officially reopened its doors on April 5, 2017 after a two-year renovation project. NYCB LIVE has long been known as a concert and sports venue; Billy Joel played his first-ever arena show there 40 years ago, and fittingly opened the venue to a sold-out crowd after its renovation was complete.

With a completely reconstructed exterior, the façade is made up of 960 fins encasing the building with 4,654 unique folded-aluminum fin segments that pay homage to Long Island's history as the cradle of the aviation industry. Guest enhancements include a new exterior glass storefront to infuse natural light into the refreshed concourse, a redesigned main entrance, all new seating, improved bowl circulation, and revamped bathrooms and concessions, ushering the property into a new era, and using an existing asset rather than tearing down an existing facility to build a new one.

The new sustainability features of the building earned the Coliseum the 2017 Emerald Brand Award for Sustainability.

Originally opened in 1972, the \$180 million redevelopment of the Coliseum is projected to bring \$10.9 billion in economic development over the next 30 years. The venue has already hired nearly 1,500 staff to help work events, with about 12% of the first 1,000 hires being from the local community. Furthermore, the new sustainability features of the building earned the Coliseum the 2017 Emerald Brand Award for Sustainability.

Recently, the venue partnered with Ecologic Solutions to install an electro-chemically activated cleaning technology, utilizing salt water and electricity to produce an all-purpose cleaning detergent and sanitizer disinfectant onsite.

"We're very excited about our new ECA technology, because it will help us reduce time and cost associated with sourcing cleaning products," explains Matt Felker, General Manager of NYCB LIVE. "Now we can produce everything onsite, which also reduces the amount of packaging and waste associated with these purchases."



Puerto Rico Convention Center

Last fall, the devastation of Hurricane Maria hit Puerto Rico, leaving much of the island without a secure source of power and water. Given the widespread damage, the United States' Federal Emergency Management Agency (FEMA) and local Puerto Rican government needed a safe location to handle a large-scale operation, leaving government officials with one option, the Puerto Rico Convention Center (PRCC).

The convention center was one of the few facilities not damaged during the hurricane and with fully functional generators and 600,000 square feet of space, it was the ideal space for FEMA's operations. The PRCC staff hosted a 90-day round-the-clock relief effort, which required transforming the facility to a central command post so government officials could store and distribute supplies. The convention center postponed all upcoming events and granted FEMA a three-month lease. The Puerto Rico Government and FEMA officials moved in on September 24th, taking over 100% of the building.

"FEMA sent a lot of inspectors to review the condition of our facility, within 24-48 hours they converted the convention center to a federal building," explains Jorge Perez, General Manager for the Puerto Rico Convention Center. We transformed our facility into a world-class response center for one of the largest natural disasters in the history of Puerto Rico."

"We transformed our facility into a world-class response center for one of the largest natural disasters in the history of Puerto Rico."

During the first few weeks of operations, the convention center served up to 14,000 meals a day, as many restaurants and stores were either closed or extremely hard to reach. Additionally, part of the building was utilized to store meals for military personnel, while other parts were used for lodging. The convention center maintained its full-time staff and recruited additional workers during a time that was otherwise difficult for people to find employment.

"It was very intense—nonstop for 90 days, but we're used to having multiple high-volume events at the same time, so our team was equipped to respond FEMA's needs. It's the biggest convention we've had to date."



Mercedes-Benz Arena in Shanghai

Recently recognized as the most environmentally friendly venue in Shanghai, the Mercedes–Benz Arena continues to strengthen its commitment to environmental sustainability through new employee engagement strategies and venue operational initiatives.

In 2017, the arena expanded its partnership with Shanghai Roots & Shoots Center to conduct a comprehensive environmental audit of its office space. The audit led to the launch of Mercedes-Benz Arena's most current employee engagement program, Eco Office Program, which educates employees on how they can minimize their environmental footprint while at work. Additionally, in 2017, the arena's operations team focused its efforts on how to maximize energy efficiency throughout the venue, which included installing a cloud-based energy management system that monitors real-time operational diagnostics, allowing the team to adjust energy schemes based on collected data. For example, the arena's HVAC and lighting systems are now linked up to one computer program, allowing staff to adjust settings throughout the day, without much effort.

...recognized as the most environmentally friendly venue in Shanghai...

"Our operations team can now set energy efficiency schemes throughout our venue and adjust these schemes through a centralized cloud hub location, minimizing the time and personnel needed to monitor our systems," says David Hua, Mercedes-Benz Arena's Deputy General Manager.

Additionally, Mercedes-Benz Arena invested in 12 air curtain machines in its West Hall to improve indoor air quality and maximize energy efficiency to help stabilize temperatures within the venue.



Metro Bike Employee Program

In celebration of National Bike Month, which takes place in the U.S. every May, AEG 1EARTH and AEG Health & Well-Being partnered with Los Angeles Metro to provide subsidized Metro Bike Share passes for all team members in Downtown LA.

To celebrate the launch of this program and to familiarize employees with the Metro Bikes, team members in Downtown LA gathered on National Bike to Work Day on May 19th for an AEG group ride during lunch. Starting with a bike safety briefing in front of Microsoft Theater, the group ride took place throughout L.A. LIVE and the surrounding Downtown LA area.

...147 Los Angeles based employees have signed up for a Metro Bike Share pass.

"It is good to know that there are more ways to get around Los Angeles than traveling in your personal vehicle. Metro Bike Share is an easy-to-use service with sturdy and comfortable bikes to get you around town. The City of Los Angeles has plans for additional bike lanes around Downtown LA and throughout the city to support travel on two wheels. I look forward to continuing to pedal around the city," explains David Born, Senior Director, Security, STAPLES Center.

Since the event, a total of 147 Los Angeles based employees have signed up for a Metro Bike Share pass.



MBNA Thames Clippers

The MBNA Thames Clippers operates a fleet of 17 high-speed catamarans, and is the fastest and most frequent commuter fleet on the River Thames in London.

In 2017, six of the fleet completed an LED refurbishment.

Thames Clippers is currently building an upgraded home port facility at Trinity Buoy Wharf, located opposite The $\rm O_2$. This new port facility will allow all vessels to be connected to shore power over night, rather than being powered by diesel generators. The project is estimated to save about 100,000 litres of diesel annually. The new facility will also enable the operator to pump out waste water from the vessels and directly into the London sewer system rather than other inefficient means.

Thames Clippers new port facility is estimated to save about 100,000 litres of diesel annually

Additionally, Thames Clippers is currently in the process of constructing a new dry dock facility at Tilbury Docks which will provide a new maintenance facility much closer to London for vessels to be lifted out of the water. This facility will enable for significant operational efficiencies as it will be much closer to the city center, whereas its current facility is about 45 miles outside the city, approximately 3–4 hours by river.

MBNA Thames Clippers has also recently been successful as part of a European Consortium in securing EU funding (Horizon 2020) to research the potential of developing a fully electric high speed vessel. London is amongst the most challenging waterways to operate within so presents a robust case study to identify the critical success factors for a fully electric solution. The project will run until 2021 and a test vessel will be built in Norway.

Looking ahead, Thames Clippers has commissioned the construction of a new vessel to its fleet, which will be lighter, requiring smaller engines and ultimately resulting to higher fuel efficiency.



2017 Memberships and Recognitions

MEMBERSHIPS

Green Sports Alliance
U.S. Green Building Council
US Composting Council

RECOGNITIONS

Brisbane Convention and Exhibition Centre received the Resource Recovery Award (Business) as part of the Cleaner Suburbs Awards conducted by CitySmart.

International Convention Centre Sydney received Gold in Energy and Environmental Design (LEED) certification from the U.S. Green Building Council.

LA Kings and LA Galaxy were both recognized as Environmental Innovators of the Year at Green Sports Alliance's Sixth Annual Game Changer Awards in Sacramento, California on June 28, 2017. Both first-time recipients, the Kings and Galaxy were selected for their efforts in sustainable stadium and arena operations and community and fan engagement.

Mercedes-Benz Arena in Shanghai was honored by the Environmental Sustainability and City Sanitation Bureau of Pudong District as the most environmentally friendly venue in Shanghai.

Los Angeles Convention Center was honored by Governor Edmund G. Brown Jr. with the 2017 Governor's Environmental and Economic Leadership Award (GEELA).

Sunny Sohrabian, Manager of Environmental Sustainability Programs and Initiatives for AEG was selected as a 2017 Greenbiz "30 under 30" honoree for her work in sustainability.

John Marler, VP of Energy and Environment for AEG joined the Association of Engineers in 2017 as a member and is now a Certified Energy Manager (CEM®).









aegworldwide.com

copyright ©AEG 2018

