



**AEG** OAKLAND  
1 EARTH  
ANNUAL REPORT  
2014



## LETTER FROM THE GENERAL MANAGER

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Dear Citizens of Oakland and Alameda County,

Worldwide, AEG takes its responsibility to steward the environment seriously, and AEG Oakland is no exception. AEG 1EARTH represents the corporation's global commitment to sustainability through responsible management and decision-making. Our environmental goals are purposefully far-reaching but achievable, and they serve as the roadmap that will guide AEG on a path toward sustainability over the next decade and beyond.

At Orade Arena and O.Co Coliseum, we have implemented numerous projects to protect natural resources, reduce waste, and lead by example to create a cleaner, healthier environment. Our energy conservation efforts have included the installation of energy-efficient lighting throughout our facilities and technologies to improve the efficiency of heating and cooling systems. We've drastically reduced our water usage through improvements such as low flow water receptacles and a hardscape management plan.

Through partnerships with fans and local non-profit organizations, our active recycling and e-waste programs have diverted significant amounts of waste from landfills. Our sustainable purchasing programs utilize 100 percent post consumer recycled paper products and compostable concessions packaging. In short, we've actively developed, executed and invested in strategies to improve our environmental performance with clear and measurable results.

I am proud of the progress we've made over the past two years to reduce our environmental footprint, protect and conserve natural resources, and demonstrate our leadership in sustainable facilities management. This report will demonstrate that while our track record speaks volumes about our commitment to green initiatives, we aren't content to rest on our past accomplishments. We will continue to strive to sustain the clean, healthy, and beautiful environment that the citizens of Oakland and Alameda County deserve, and to build a better world for future generations.

Sincerely,



Chris Wright  
Vice President, AEG Facilities  
General Manager, Oracle Arena & O.co Coliseum



# WATER

GIVEN THE STATEWIDE DROUGHT IN CALIFORNIA, AEG OAKLAND IS PARTICULARLY CONCERNED ABOUT WATER CONSERVATION. OUR WATER-EFFICIENT PRACTICES SAVE MILLIONS OF GALLONS OF WATER EACH YEAR.

## RECYCLING RAINWATER, REDUCING POLLUTION

AEG Oakland has initiated a rainwater harvesting project that will reduce the potential for pollution caused by storm water runoff while simultaneously conserving water. The cutting-edge system will capture rainwater runoff from the parking lots and stadium, sanitize the reclaimed water, and store it for re-use to irrigate the landscape and playing field or during external stadium cleaning. This relatively new technology has the potential to reduce water usage by as much as 50%. The new system will also prevent harmful pollutants, fertilizers, and debris from being carried into our bay, lake, sloughs, creeks and ocean.

## HIGH-PRESSURE, HIGH-EFFICIENCY WASHING

Cleaning the outdoor seating and public concourses at O.co Coliseum will soon require less water and time as a result of AEG Oakland's new high-pressure washing system. The current system utilizes 25 to 27 gallons of water per minute. The new system will reduce that amount to four gallons per minute, achieving a 71 percent reduction in the amount of water utilized each time the stadium is washed.



# ENERGY & CLIMATE

AEG OAKLAND FOCUSES ON REDUCING ITS ENERGY CONSUMPTION THROUGH THE USE OF ALTERNATIVE AND RENEWABLE ENERGY SOURCES AND TECHNOLOGY UPGRADES.

## ENERGY-EFFICIENT LIGHTING

O.co Coliseum fans will be able to see the action more clearly, while enjoying a safer and more secure environment as a result of the effort currently underway to install LED lighting throughout public concourse areas and parking lots. Advances in lighting technology will allow AEG Oakland to replace existing metal halide fixtures with brighter, more efficient, and longer-lasting LED fixtures. The LED lighting will reduce energy consumption by 60 to 70 percent without the need for maintenance or replacement for 15 to 20 years.

All parking lot light fixtures will be replaced with LED fixtures, allowing Oracle Arena and O.Co Coliseum to transition from 1000-watt bulbs to 225-watt bulbs without compromising the amount or quality of lighting. AEG Oakland will also invest in additional lighting to further enhance safety and visibility for patrons.

## ELECTRIC CAR CHARGING STATIONS

In an effort to support and promote the environmental benefits of electric cars, AEG Oakland is installing up to eight vehicle-charging stations for our visitors.



# WASTE

AEG EARTH FOLLOWS THE “REDUCE, REUSE, RECYCLE” PRINCIPLE IN ITS WASTE MANAGEMENT EFFORTS, PURSUING STRATEGIES TO DIVERT WASTE FROM LANDFILLS AND TO MINIMIZE THE GENERATION OF HAZARDOUS WASTE.

## GREENER CLEANING

With the help of a new sustainable cleaning technology, AEG Oakland is minimizing the environmental impact of cleaning solutions without compromising cleaning standards. Recently-installed machines in Oracle Arena combine tap water, electricity, and salt to make an effective cleaning solution without the harmful health and environmental effects caused by chemicals in conventional cleaning products.

This revolutionary cleaning approach also utilizes up to 70 percent less water than traditional cleaning processes. The numerous benefits of this greener cleaning technology include decreased health and safety hazards, chemical residue, and environmental impact throughout AEG Oakland properties.

“WE PRIDE OURSELVES IN ALWAYS TAKING THE INITIATIVE TO DO THE RIGHT THING FOR THE ENVIRONMENT. WE DO THIS BY STAYING IN TUNE WITH THE INDUSTRY AND REGULARLY UPDATING OUR POLICIES AND PROCEDURES TO INCORPORATE NEW, EFFICIENT TECHNOLOGIES.”

-JOE CHAVEZ, DIRECTOR OF FACILITIES MAINTENANCE, ORACLE ARENA & O.CO COLISEUM

# RAISING THE BAR

## LEED CERTIFICATION

AEG Oakland seeks to continuously improve the environmental performance of Oracle Arena and O.Co Coliseum. As part of our ongoing efforts to apply sustainability best practices to minimize energy usage, water consumption, and waste generation, AEG Oakland will pursue formal certification from the U.S. Green Building Council’s Leadership in Energy and Environmental Design (LEED) program for Oracle Arena. Based on the results of environmental audits, the AEG Oakland team has established “Green Goals” to serve as a blueprint for LEED certification eligibility. Goals include the implementation of policies and protocols for sustainable operations, plumbing fixture upgrades, and installation of energy meters to improve monitoring and conservation efforts.

## BUILDING MANAGEMENT SYSTEM

The Building Management System (BMS), an integrated system that manages heating and cooling, and other systems, is an integral component of environmental performance at Oracle Arena. AEG Oakland recently extended the BMS to include the arena lighting panel, reducing energy consumption by approximately 15 percent. The BMS is enhanced by Resource Advisor, a next-generation software application increases the effectiveness of energy and sustainability programs by integrating data from existing business systems, equipment, and meters into a single enterprise-wide platform. The software facilitates improved communication and coordination across business units to ensure a consistent and meaningful impact on sustainability. The next phase of the project will generate additional cost savings by incorporating submetering sensors on all equipment.



**“BASED ON OUR COMPREHENSIVE ASSESSMENT, WE CONFIRMED ORACLE ARENA'S ELIGIBILITY TO ADVANCE ITS SUSTAINABILITY PLATFORM BY PURSUING LEED CERTIFICATION. WE APPLAUD AEG OAKLAND FOR ITS COMMITMENT TO NOT ONLY UPDATING THE HISTORIC, 615,000 SQUARE FOOT BUILDING BUT ENSURING THESE UPDATES ARE MADE IN A SUSTAINABLE WAY.”**

-TED SPEAR, ASSOCIATE PRINCIPAL,  
GREEN BUILDING SERVICES, INC.

# AEG 1EARTH



**COMMITTED TO SUSTAINABILITY.**



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