



LOS ANGELES

CANDIDATE CITY
OLYMPIC GAMES 2024



LA 2024
SUSTAINABILITY VISION
REIMAGINING
SUSTAINABILITY
TOGETHER

LA
20
24





6 OUR VISION

10 WHY LOS ANGELES

14 HOW WE'LL IMPLEMENT

COMMUNITY-DRIVEN SUSTAINABILITY

THE ROLE OF THE GAMES

FROM LEADERSHIP TO PRACTICE

20 LEADING BY EXAMPLE

RADICAL REUSE

LA MEMORIAL COLISEUM

ENERGY

CARBON

BUILDING ON SUSTAINABLE VENUE PRACTICES

GREEN SPORTS PARK AT STUBHUB CENTER

WASTE

WATER

SOURCING

TRANSPORTATION

USING BEST-IN-CLASS EXISTING INFRASTRUCTURE

OLYMPIC AND PARALYMPIC VILLAGE AT UCLA

BY THE NUMBERS



FIRST ZERO

ENERGY POSITIVE GAMES

Renewable energy generated by the community will exceed energy used by the Games

WASTE

90%+ of waste generated by the Games will be recycled, reused or composted

100%

WATER ACCOUNTABILITY

First Games to account for 100% of its water use and engage the community in adopting water-smart practices

100%

OVERLAY RETURN

All temporary and overlay materials to be reused or returned to natural state

100%

EXISTING AND TEMPORARY VENUES

No new permanent construction for Games

100%

PUBLIC TRANSIT/ RIDESHARING

All spectators will use public or shared transportation

650M

USD INVESTED IN GREEN SPACE

Leading up to 2024, Angelenos will invest USD 94M per year in green space, children's fitness and community well-being

75%

REDUCTION IN OZONE POLLUTION

LA is already 50% below 1984 levels, with another 25-30% decrease projected by 2024

FROM THE MAYOR



ERIC GARCETTI

Hosting the 2024 Olympic and Paralympic Games in Los Angeles is an opportunity to showcase what the Games embody when it comes to embracing and modelling the highest standards of sustainability. Our Sustainable City pLAN was released in 2015, and set ambitious targets to lower emissions, increase water conservation and expand solar power. And we are showing results: we reduced greenhouse gas emissions by 20 percent, achieved 20 percent water conservation across the City, and have the most battery electric vehicles of any municipal fleet. Angelenos also now have access to more electric vehicle charging stations, more locally generated solar energy, and enjoy the highest recycling rate of any city in the country.

The Sustainable City pLAN links environmental stewardship with goals of shared economic growth and urban well-being. It also encourages Angelenos to join the global fight against climate change, which is why I've engaged other like-minded leaders so we can learn from each other. To share best practices with other cities, I started the Mayors' National Climate Action Agenda in the U.S. (now with 72 mayors); actively participate as Vice Chair of the C40 Climate Leaders Group; and hosted the U.S.-China Climate Leaders Summit in Los Angeles in 2015. This City is recognized for driving real change, but it is also a place that participates in a broader dialogue, welcoming more than 40 million visitors a year.

Over the next decade, LA will add more transit infrastructure than any city in the U.S., improving air quality, reducing greenhouse gas emissions and saving people's valuable time. In the next decade we will more than double the amount of renewable energy in our electric grid, making it possible to support grand gatherings like the Games with a robust mix of responsibly sourced energy. We welcome the opportunity to showcase our values, put them at the service of the Olympic Movement, and use the platform of the Games to engage the next generation of global citizens.

Warm regards,

A handwritten signature in black ink, appearing to read "E. Garcetti". The signature is stylized and includes a horizontal line extending to the right.

Eric Garcetti
Mayor of Los Angeles



FROM LA 2024 LEADERSHIP



GENE SYKES

The opportunity to host the 2024 Olympic and Paralympic Games in Los Angeles has already catalyzed our community. Hundreds of partners have stepped forward across every sector of society asking how they can support the Games and contribute their own unique expertise—from transportation to housing to sport to community engagement. Each is excited to promote the extraordinary values the Games stand for, and the values we hold dear here in Los Angeles, including sustainability in all of its forms—social inclusion, economic benefit and environmental stewardship.

Something new—an intensity of collective partnership and shared responsibility for a higher purpose—is at work in Southern California as a result of our bidding to host the Games. And that spirit of cooperation and mutual purpose resonates powerfully in a world that’s increasingly uncertain.



BRENCE CULP

Because of our natural orientation towards sustainable practices, we believe strongly that Los Angeles can deliver the most sustainable model for the 2024 Games, as well as future editions, by developing a shared body of transferable experience to advance the goals of sustainable sport and sustainable cities everywhere.

By applying fundamental principles of sustainability across our Games planning, we seek excellence by first using what we already have—places, institutional partners, people—and then look for ways to improve them. Using this approach, we are exploring how we can create a grand partnership through the Games to play our part as global citizens.

Gene Sykes
Chief Executive Officer,
LA 2024

Brence Culp
Executive Director,
Sustainability and Legacy,
LA 2024

OUR GUIDING PRINCIPLES

1 WORK WITH WHAT LA ALREADY HAS

Radically reuse and restore.
Use our city’s existing infrastructure, including world-class sports venues and universities, to host the Games.

Partner big.
Partner with our thousands of existing local institutions and their efforts and objectives to harness the full power of LA human capital and innovation.

Gather LA’s leadership.
Welcome the expertise and support of local individuals and corporations who care and want to be involved.

Include all our communities.
Prioritize public support and volunteer engagement to put on a Games by and for all of Los Angeles.

2 BE RESPONSIBLE AND DO NO HARM

Be fiscally responsible.
Ensure no taxpayer money is diverted from civic priorities to host events.

Be socially responsible.
Ensure our events do not displace communities or harm natural environments.

Be environmentally responsible.
Promote and embody responsible resource consumption and waste generation, including carbon emissions.

3 SEEK OPPORTUNITY TO CREATE POSITIVE IMPACT

Diversity and inclusivity.
Create and implement a diverse and inclusive hiring strategy for both employees and volunteers.

Responsible sourcing.
Purchase and source products from responsible producers/companies and locally whenever possible.

Promote the best of sustainability.
Use the reach and visibility of the Games to promote and catalyze the great sustainability work already being done by local, regional and global organizations.

Create “activation” sponsorship opportunities. Develop innovative collaborations for radical engagement, education and investments that leave a positive impact on the community.

Incentivize durable sustainability. Create incentive opportunities to drive good behavior leading up to, during and long after Games—such as volunteering in your community during the bid to receive first consideration to be a volunteer for the Games in 2024.

Transfer our knowledge globally. Create new benchmarks and a transferable model for a sustainable Games, sustainable mega-events and how cities can come together around sustainability.

REIMAGINING SUSTAINABILITY TOGETHER

FOR THE GAMES – IN 2024 AND IN THE FUTURE

The Los Angeles 2024 Games won't simply be the most sustainable Games ever held – they will create the model, systems and knowledge transfer to inform Games sustainability for decades to come.

- Sustainability is in the DNA of Los Angeles and California – we are rapidly transforming how we innovate environmentally, socially and economically through a culture of radical reuse, green tech innovation, climate-smart governance and deep inclusivity of all our communities.
- Our Games will capitalize on that deep knowledge to create and prove a transferable model for mounting a sustainable Games – anywhere in the world.

FOR EVERY GLOBALLY SIGNIFICANT MEGA-EVENT

The sustainability paradigm created by the Los Angeles 2024 Games will be the living reference book for sports, business, cultural and other mass events globally.

- We're building upon the London 2012 Games standards and – drawing on a worldwide community of sustainability experts – we're creating a new benchmark for the way mega-events will be hosted, from governance to footprint to business and partnerships.
- Our principle of "radical reuse" – using 100 percent existing and temporary venues and ensuring all temporary and overlay materials are reused or returned to their natural state – will revolutionize mega-events far beyond the Games themselves.

FOR CITIES ACROSS THE PLANET

The Los Angeles 2024 Games will showcase how urban sustainability can become mainstream – through a grand partnership that represents the future of sustainability.

- Los Angeles is already the city others turn to for forward-thinking urban solutions in the face of resource stresses. Like many cities in Africa, Asia and Latin America, we are sprawling, deeply diverse and bristling with public and private innovation.
- Our Games will catalyze a quantum leap in LA's networked collaboration for sustainability. We will achieve our model not by government action alone, but also through collaboration that gathers and multiplies the collective powers of government, private responsibility, high tech, social networks and civic groups.
- And Games in Los Angeles – the global energy center for entertainment – will be perfectly positioned to mainstream this story, this model, in ways that will resonate with billions.

A CULTURE OF SUSTAINABILITY LEADERSHIP

Only Los Angeles can capitalize on the full power of the Games to reach ambitious sustainability goals *and* ignite an international movement for urban sustainability through sport:

- LA is leading cities across the US and collaborating with the world's largest cities in a collective effort against climate change.
- LA is normalizing sustainability across the city – not just by government mandate, but in a broad movement led by all our stakeholders, from our corporate and civic sectors to our community leaders and our universities.
- LA and California are global leaders in sustainability policies, practices, infrastructure and innovation.
- LA is the world's storytelling capital – and our media leaders are eager to tell the sustainability story of this city and the LA 2024 Games.

POLICY FRAMEWORKS THAT SUPPORT THE MOST SUSTAINABLE GAMES EVER

CLIMATE CHANGE

LA and California's aggressive environmental regulations and policies are standard-bearers in the fight against climate change. Some highlights:

- California has mandated reduction of statewide greenhouse gas emissions by 40% below 1990 levels by 2030.
- All California utilities must derive 50% of their energy from renewable sources by 2030.
- LA's Sustainable City pLAn aims to achieve a 45% reduction in city greenhouse gas emissions below 1990 levels by 2030.

LA SUSTAINABLE CITY PLAN

This 20-year plan aims to prepare Los Angeles for looming environmental and climate challenges. The pLAn sets forth targets for more than 100 key environmental outcomes, including:

- Become coal-free for electricity generation by 2025.
- Reduce LA's water imports by 50% by 2025.
- Divert 90% of LA's waste annually by 2025.
- Reduce energy use for all building types in LA per square foot by 30% by 2035.

TRANSPORTATION

LA's MTA Long-Range Transportation Plan will revolutionize the region's public transportation network over the next 30 years with an infusion of nearly USD 300 billion – at least USD 88 billion for projects to be delivered by the 2024 Games.

ROOTED IN STANDARDS, LA 2024 WILL BE A NEW SUSTAINABILITY LABORATORY

Recognizing its role as a global participant, the LA 2024 Games will map its sustainability program back to each of the UN Sustainable Development Goals (SDGs) and advance the goals of the Paris Agreement. The Games will also apply best practices from previous Games, and support Los Angeles and California's environmental leadership.

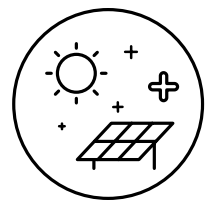
These Games will also be a new laboratory to invent the future of sustainability, particularly through our grand partnership approach. High tech, science, policy and community will come together in a networked creativity loop to rethink urban transit, waste diversion, water recapture, energy conservation, financial accountability and transparency. What the Games develop here will inform the future of LA, future Games and other urban mega-events for decades.

QUICK FACTS LOS ANGELES' GLOBAL SUSTAINABILITY LEADERSHIP

- World's first 100% clean fuel city bus fleet
- Second city worldwide to set an urban heat island reduction target
- Most LEED-certified municipal building square footage of any city worldwide
- Lowest total water use, including residential, commercial and industrial, of any US city over 1 million people
- Most solar power installed of any US city
- Most publicly available EV chargers of any US city
- Most Energy Star rated buildings built in the United States nine of the last 10 years
- Most Green Seal-certified hotel rooms of any US city
- Zero waste goal by 2025 – first major city in the US projected to achieve that target
- On track to derive 55% of energy from renewable sources by 2030, exceeding CA's requirement of 50%

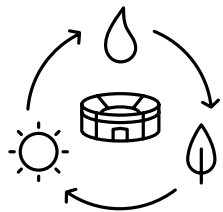
COMMUNITY-DRIVEN SUSTAINABILITY SIX INITIATIVES FOR THE LA 2024 GAMES

People gather at the Games for a collective experience that can inspire action to benefit all. Working from a model of the Games as a convener of people, the LA 2024 Games will activate a broad range of networked partners across public and private sectors and civil society to maximize engagement of billions of fans across the globe while engaging more than 1 million local youth and the vast multinational Angeleno community. The LA 2024 Games' local activation strategy will include six special initiatives that are designed to organize, enable and further advance sustainability initiatives already underway in our communities.



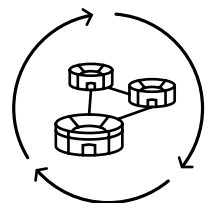
ENERGY POSITIVE GAMES

The LA 2024 Games will be the first Energy Positive Games – generating more energy through renewable sources and energy efficiency efforts than the energy needed to power the Games. We will partner with venue operators, regional utility partners, tech innovators and Los Angeles' 18 million residents to meet this goal. This Energy Positive Games infrastructure will remain as a legacy and model for future events. **See page 22 for more.**



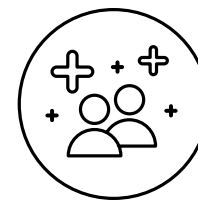
SUSTAINABLE VENUE OPERATIONS

Our four Sports Parks will highlight our partnership approach to sustainability – integrating waste management, energy and emissions management, water conservation and quality, and workforce preparedness and training, as well as local community engagement. Each Sports Park will also offer unique features of environmental design, cultural expression and engagement of LA's wonderfully diverse neighborhood communities.



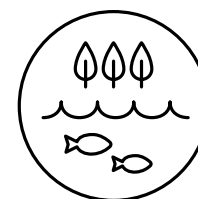
GREEN SPORTS PARK

The South Bay Sports Park at StubHub Center – our designated "Green Sports Park" – will showcase for the world a state-of-the-art sustainable sports venue. We will collaborate with the StubHub Center's owner and operator, AEG, to deploy leading green technologies for clean energy, water efficiency and resource reuse, including for all temporary and overlay construction. We will also use the Green Sports Park as a demonstration for what's possible and scalable with local and regional business solutions through sustainable sourcing, labor contracting and resource efficient design. **See page 26 for more.**



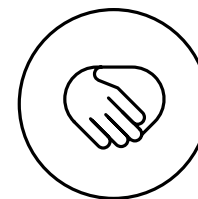
HEALTHY & WELL ATHLETE VILLAGE

Sustainability is fundamentally about people's health and wellbeing – and the LA 2024 Games will sustainably deliver the ultimate personalized experience for athletes. The Olympic and Paralympic Village at UCLA – whose "Live Well" wellness movement aims to make the university the healthiest in the United States – will place special emphasis on cutting-edge athlete nutrition and accommodation design. **See page 32 for more.**



BIODIVERSITY & GREEN SPACE INITIATIVE

Southern California sits in one of the world's 35 biodiversity hotspots – and Angelenos overwhelmingly support revitalizing and increasing green space. The LA 2024 Games will collaborate with local non-profit organizations such as LA's Natural History Museum and Audubon Center at Debs Park to showcase the region's collective efforts to protect native species and their natural habitats. We will also partner with these organizations to enhance and expand urban green space, including restoration within and adjacent to the four Sports Parks.



HIGH SOCIAL INCLUSION & DIVERSITY ENGAGEMENT

Diversity and inclusion define Los Angeles – home to people from more than 140 nations speaking more than 185 different languages. The LA 2024 Games will showcase the city as a cultural hotspot by implementing high social inclusion and diversity standards across the entire Games – from workforce to sourcing practices, from the Cultural Olympiad to Live Sites, celebrations and neighborhood engagement, and overall branding. Our corporate and community partner collaborations will feature activations that demonstrate how the Games are inspiring Los Angeles to come together to achieve shared social responsibility goals.

THE ROLE OF THE GAMES CONVENING THE FULL POWER OF LA

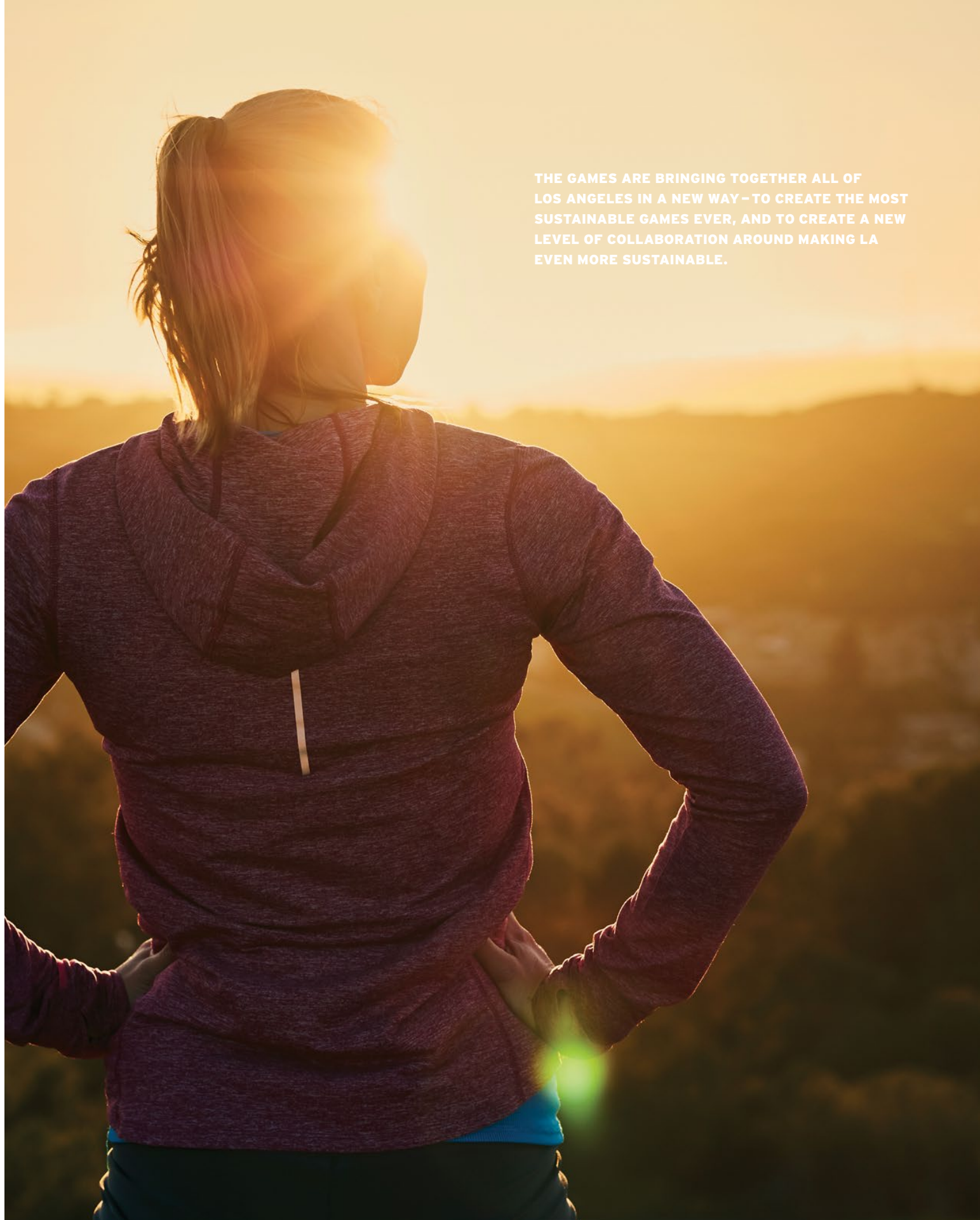
Our core vision for the 2024 Games in Los Angeles: **To create a grand partnership among this global city's stakeholders**—finance to labor, government to NGOs, community groups to universities to tech entrepreneurs and more—to host a Games that set the standard for a sustainability event, and make that knowledge universally accessible and applicable.

The best part: **That synergy is already happening.** The prospect of hosting the 2024 Games is accelerating investment and bringing together LA's many communities like never before—inspired by the unparalleled platform the Games provide for connection, attention and knowledge sharing.

These Games will be **the gold standard and living reference book for sustainability through sport—environmentally, economically and socially.** We will show the world the future of durable prosperity: a grand partnership among government, private sector, civic organizations and the community to create a low-waste, low-carbon, water-smart and socially and economically inclusive world.

LA 2024's guiding principle is to work with what we have. We will make maximum use of the city's existing built environment—sports venues, transportation infrastructure and housing. Equally important, we are encouraging local leaders and their organizations to link their aspirations for the future to the Games. Here are a few ways in which the LA 2024 Games will actively cultivate and apply partner enthusiasm to participate:

- AECOM, a global leader in sustainability in the built environment, is already working with corporate sponsors and innovators in material sciences to develop the next generation of renewable architecture for LA 2024 temporary venues and overlay.
- Projects funded by USD 88 million of the region's MTA Long-Range Transportation Plan will be online by 2024—an accelerated timetable motivated by the Games, which will result in an addition of more than 224 kilometers of rail expansion since 1984.
- Los Angeles' four local utilities came together to brainstorm on forming a collective effort for community outreach around the Games—leading to the concept and plan for the first Energy Positive Games.
- The LA 2024 Innovation Network—dozens of leading entrepreneurs and high- and green-tech companies—are joining forces to generate cutting-edge sustainability solutions for everything from transportation demand management to solar-powered carports at Games' venues.
- LA Regional Park and Open Space District—along with dozens of schools, youth sports organizations, and cultural and non-profit organizations working with children—are investing approximately USD 100 million a year to increase green space, children's fitness and well-being, and will leverage the platform of the LA 2024 Games to promote outdoor activity and sports programming for youth.



THE GAMES ARE BRINGING TOGETHER ALL OF LOS ANGELES IN A NEW WAY—TO CREATE THE MOST SUSTAINABLE GAMES EVER, AND TO CREATE A NEW LEVEL OF COLLABORATION AROUND MAKING LA EVEN MORE SUSTAINABLE.



FROM LEADERSHIP TO PRACTICE SUSTAINABILITY IN GOVERNANCE & ACCOUNTABILITY

The LA 2024 Games will prioritize making a lasting positive impact on the environment and people – and that means sustainability will drive top-level decision making. The LA 2024 Chief Impact Officer will oversee the Games' entire sustainability and legacy portfolio, report directly to the Chief Executive Officer and will develop and implement the Games' Sustainability Strategy in partnership with the broader executive team. Responsible for managing a USD 25 million seed fund to support achievement of the Games' sustainability goals, this position will help ensure sustainability remains at the center of the Games and their legacy. Some highlights:

SUSTAINABLE SOURCING & RESOURCE MANAGEMENT

The Chief Impact Officer will form Sustainable Sourcing and Resource Management Working Groups that include representatives across the entire organizing committee, as well as external industry and environmental stakeholders, to ensure sustainable practices are embedded in all decision making related to delivering the LA 2024 Games.

DIVERSITY

The Chief Impact Officer will also ensure the LA 2024 Games are reflective of Los Angeles' diversity in every aspect – from hiring, procurement and branding, to event programming and community celebrations. The region is one of the world's largest cultural hotspots, with more than 140 nations represented in our population. Making sure LA has a place for everyone is core to what it means to be an Angeleno and will be core to the LA 2024 Games.



STANDARDS & PRACTICES

The latest standards and best practices will guide all planning and decision making, evolving our strategy as the Olympic Movement establishes new performance benchmarks leading up to and during the Games. For example, the Sustainability Management System (SMS) will guide all decision making as outlined in the ISO 20121 standard. Additional standards will include, but are not limited to, ISO 26000 Standard for Social Responsibility, ISO 20400 Standard for Sustainable Procurement, AA 1000 Standard for Accountability and the Global Reporting Initiative.

LEGACY

The LA 2024 sustainability vision means implementation that goes beyond the Games to build a durable legacy – centered around reuse and engagement. Our principle of "radical reuse" – using 100 percent existing and temporary venues and ensuring all temporary and overlay materials are reused or returned to their natural state – and our ability to activate a broad range of networked partners will revolutionize mega-events far beyond the Games themselves.

RADICAL REUSE LA MEMORIAL COLISEUM

The LA 2024 Games will **prove radical reuse** by hosting the Games for a historic third time at the Coliseum—1932, 1984 and now 2024.

1932
1984
2024



**LA 2024 GOAL
FIRST ENERGY
POSITIVE GAMES****ENERGY**

The LA 2024 Games will be the first Energy Positive Games – generating more energy through renewable sources and energy efficiency efforts than the energy needed to power the Games. We are partnering with our venue operators, regional utility partners, tech innovators and the region's 18 million residents to meet this goal.

Los Angeles provides the perfect base for an Energy Positive Games. LA already uses the most solar power of any city in the United States; sources 25 percent of its energy from renewables; and is on track to be coal-free by 2025. Angelenos are also increasingly enrolling in solar and energy efficiency programs through their utility providers.

And we already have a massive head start toward our goal. Local utilities will generate at least 40 percent of their energy from renewable sources by 2024. LA 2024 is busy engaging venues and communities to develop enough renewable generation (e.g., through rooftop solar adoption) and efficiency efforts to exceed the remaining 60 percent of usage. With one of the most stringent energy codes in the world, LA 2024's venue partners are committed to robust energy strategies.

Some, such as STAPLES Center, Honda Center and Long Beach Convention Center, have already implemented significant energy renovation projects (e.g., on-site solar generation, natural gas fuel cells), and others are deploying approved efficiency projects (e.g., LED lighting retrofits) in the coming year. For example, STAPLES Center installed a 500 kW fuel cell that will supply roughly 25 percent of the arena's electricity, complementing the existing 346 kW rooftop solar installation. The fuel cells will reduce STAPLES Center's greenhouse gas emissions by an estimated 2.2 million pounds each year while also saving thousands of dollars in energy costs.

We are then committed to knowledge transfer of all our long-term planning, leveraged technologies and legacy effects related to delivering Energy Positive Games for future Games and other events.



+ *Leading By Example: Anaheim Arena Management-operated Honda Center – LA 2024's proposed volleyball venue – installed a 750 kW fuel cell that reduces the venue's base load power by 80 percent, resulting in a reduction of 2 million pounds of CO2 emissions annually.*

**LA 2024 GOAL
TONS OF AVOIDED
EMISSIONS THROUGH
NO NEW PERMANENT
CONSTRUCTION**

CARBON

“Low-carbon economy” needs to be a household phrase in 2024 if the world has any hope of keeping average global temperatures from rising beyond 2°C. This means the LA 2024 Games must not simply be the lowest-carbon Games ever – they must showcase innovative and globally transferable low-carbon pathways.

Los Angeles is ready to deliver. Already 20 percent below its 1990 greenhouse gas levels, LA has sustainability, resilience and climate plans that commit the city to an 80 percent reduction in greenhouse gas emissions by 2050 – through policies to decarbonize electricity, support transportation alternatives, promote public transportation usage, and build energy and water efficiency. Our 2024 Games Carbon Management Strategy began with the decision to use – rather than build – existing infrastructure. By using UCLA for the Olympic and Paralympic Village, USC for the Media Village, and building no new stadiums, LA 2024 is significantly reducing the Games’ carbon footprint. In fact, three of our proposed stadiums for the 2024 Games have been used in multiple Games, demonstrating our principle of radical reuse: LA Memorial Coliseum in 1932 and 1984; Rose Bowl Stadium in 1932 and 1984; Pauley Pavilion in 1984; The Forum in 1984; Long Beach Arena and Convention Center in 1984; and Riviera Country Club in 1932.

Other strategies to reduce carbon emissions related to the Games include comprehensive and independently verified carbon accounting led by UCLA’s Institute of the Environment & Sustainability; the use of 100 percent biodiesel in all venue temporary generators; broad collaboration with LA mass transit partners to incentivize and expand low-carbon and no-carbon options; source reductions of emissions where possible; and a compensation and mitigation plan we will develop in partnership with The Nature Conservancy, one of LA 2024’s environmental partners and a globally recognized environmental organization that has protected more than 119 million acres of land around the world.

**NO NEW
PERMANENT
CONSTRUCTION.
NO NEW
OLYMPIC AND
PARALYMPIC
VILLAGE.
NO NEW MEDIA
VILLAGE.
NO NEW
STADIUMS.**



BUILDING ON SUSTAINABLE PRACTICES GREEN SPORTS PARK AT STUBHUB CENTER

- 1. **ONSITE STORMWATER MANAGEMENT** (E,G,L)
- 2. **ROOFTOP SOLAR** (G,L)
- 3. **CARBON SEQUESTRATION THRU VEGETATION** (E,G,L)
- 4. **EV BUS CHARGING** (G,L)
- 5. **ROOFTOP RAINWATER CAPTURE + REUSE** (G,L)
- 6. **URBAN FARMING** (E,G,L)
- 7. **SOLAR CARPORTS (DISTRIBUTED BATTERY STORAGE)** (G,L)
- 8. **LED LIGHTING** (E,G,L)
- 9. **PURPLE PIPE IRRIGATION/NATIVE PLANTING** (E,G,L)
- 10. **FUEL CELL POWER GENERATION** (G,L)
- 11. **BLACKWATER TREATMENT + REUSE** (G,L)
- 12. **PERMEABLE PAVING** (G,L)
- 13. **FARMER'S MARKET** (E,G,L)
- 14. **FOOD DONATION PROGRAM** (G,L)
- 15. **COMMUNITY SOLAR** (E,G,L)
- 16. **EV STATION** (G,L)
- 17. **REUSABLE REPURPOSED TEMPORARY OVERLAY** (G,L)
- 18. **LED PARKING LOT LIGHTING** (G,L)
- 19. **LIVING GREEN WALL** (G,L)

+ The LA 2024 Games will explore opportunities to build on existing sustainable venue practices – including at StubHub Center, which will showcase for the world how a state-of-the-art sustainable sports venue can also have tremendous positive benefits for its surrounding communities. The above diagram highlights existing sustainable practices (E) and opportunities we will explore for Games-time (G), all which will have a lasting legacy post-Games (L).



WASTE

LA 2024 GOAL ZERO WASTE

Zero waste (defined in LA as 90+ percent waste diversion) by 2025: Los Angeles has committed to this ambitious target, becoming the first large US city to make such a pledge. The comprehensive resource and waste management plan for the LA 2024 Games will support achievement of that goal a year earlier – starting with our venue operations and overlay reuse strategy.

+ *Leading By Example: The USC-managed LA Memorial Coliseum stadium – LA 2024’s proposed ceremonies and athletics venue – is the largest in the NFL and the second-largest college venue to achieve the remarkable goal of zero waste, repurposing over 90 percent of waste generated by more than 1 million fans per year.*

SUSTAINABLE VENUE OPERATIONS

Food and beverage consumption at events generates significant amounts of waste. That’s why LA 2024 is partnering with venues that have developed robust recycling programs. Blending both onsite sorting with the use of offsite facilities, our venues are already working toward achieving over a 70 percent diversion rate for solid waste by 2020 and are now expanding their programs to also include food waste. Many of our venues have also initiated community programs for food donation and e-waste collection.

VENUE OVERLAY & REUSE

Venue construction is a large waste generator and resource consumer for any Games. That’s why we are using 100 percent existing and temporary venues with no new construction for permanent venues and completely temporary construction for all overlay. Even better: for all materials purchased for venue overlay and temporary construction, our Sustainable Sourcing Working Group will ensure high sustainability performance goals. Our rigorous and centralized procurement process will take advantage of the region’s appetite for innovation and the scale and capacity of the US market to minimize the embodied impact of all temporary components and ensure 100 percent renewal and reuse. And this blueprint for unprecedented sustainable performance in resource consumption and waste generation will be transparent and transferable to subsequent Games and other mega-events.



WATER

LA 2024 GOAL 100% WATER ACCOUNTABILITY

Five years of recent drought and a reliance on sources outside our region have led to a California-wide commitment to water conservation and galvanized all of Los Angeles around water sustainability – and that focus means the LA 2024 Games will be the most water sustainable Games in history.

+ *Leading By Example: Riviera Country Club – LA 2024’s proposed golf venue – installed a 350,000 gallon on-site storage tank for run-off drainage and recycled water to build resiliency during drought years, reducing water consumption by 40 percent.*

Los Angeles’ comprehensive water management strategy – including stormwater capture and enhancements in groundwater recharge – aims to reduce LA water imports by 50 percent by 2025. And Angelenos know how to do their part. Between 2015 and 2016, Angelenos reduced their water use by 19 percent, and today consume the least amount of total water, including residential, commercial and industrial, of any US city over one million people. In support of these efforts, LA 2024 is already collaborating with its venue owners and operators, water providers, government agencies, universities and conservation groups to advance LA’s water goals leading up to, during and after the Games.

Sports venues are large consumers of water. That’s why LA 2024’s venue partners are playing their part in regional water conservation. AEG – owner and operator of three distinct Games competition venues and the South Bay Sports Park (our designated Green Sports Park) – is committed to reducing potable water use by 2.3 percent per year from 2010 to 2020. Our venue partners have implemented robust water efficiency strategies, including use of municipal greywater for irrigation and installation of water efficient plumbing fixtures. By installing water-free urinals in all men’s restrooms, the Rose Bowl – one of LA 2024’s historic competition venues and proposed soccer venue – conserves more than 100,000 gallons of water at each game.

Building on our venues current practices, we will convene a formal group of water conservation and technical experts to measure 100 percent of Games water needs and meet them in the most responsible ways. The LA 2024 Games will constitute a blueprint for water sustainability for mega-events and cities everywhere.



SOURCING

LA 2024 GOAL 100% RESPONSIBLE SOURCING

+ *Leading By Example: The AEG-owned and operated StubHub Center – LA 2024’s proposed Green Sports Park – is setting the standard for sustainable food and beverage sourcing. The venue has created an on-site farm that produces honey, eggs and an assortment of fruits and vegetables, including limes, lemons, peppers, tomatoes and herbs. These on-site sourced foods are an integral part of AEG’s commitment to a multi-faceted sustainability strategy.*

The LA 2024 Games is all about using what Los Angeles already has to offer – existing infrastructure, local resources and businesses, fair labor practices, a diverse workforce and radical innovation. And it’s also about using our partnerships and our purchasing power to demand high sustainability standards and ethical practices in every part of the supply chain. Building on what our region has to offer and the unique purchasing power of the Games, the LA 2024 Games will assemble a Sustainable Sourcing Working Group to implement a sustainable sourcing strategy that leverages what’s local but also advances global sustainability goals. This includes a code for suppliers, licensees and merchandisers to ensure all Games vendors adhere to high ethical business, environmental, social and human rights requirements.

Sourcing local is a fundamental part of the LA 2024 Games strategy. With the seventh largest economy in the world, California makes a truly local and inclusive sourcing strategy possible. For example, California is home to 77,500 farms and ranches that collectively supply nearly half of the country’s fruits, vegetables and dairy products, providing a rich potential stream of locally sourced food for the Games. LA 2024’s venue partners are already engaging local food and beverage suppliers, from the local micro-brewery to local fruit farmers.

The LA 2024 Games will employ the most sustainable sourcing practice possible by sourcing its venues – the main asset of the Games – from existing world-class facilities, including the Olympic and Paralympic Village. For all temporary and overlay materials, the LA 2024 Games will harness the region’s appetite for innovation to develop a 100 percent renewal-and-reuse strategy. We are committed to advancing the circular economy by using materials that can re-enter the biosphere safely or be disassembled and repurposed with minimal energy. Innovative strategies we will explore include:

- **Designing in layers.** Different layers of overlay can be “peeled apart” to reclaim components post-Games.
- **A robust design-for-legacy approach.** Components of the structures can be modularized for reuse with limited need to remanufacture.
- **Entertainment reuse.** Engaging LA’s entertainment industry during design may allow components to be reused for movie sets or theme parks.
- **Sport reuse.** Reclaiming and reusing components can be reapplied to construct new or temporary venues.



TRANSPORTATION

LA 2024 GOAL 100% TRANSPORT TO GAMES THROUGH PUBLIC TRANSIT/RIDESHARING

+ *Since 1984 Los Angeles has added 198 kilometers of Metro Rail and will add an additional 30 kilometers by 2024.*

Forget the freeway-choked cliché: Los Angeles is embracing a multimodal, cleaner energy mobility model that will dramatically increase access, equity and sustainability for the region. And the LA 2024 Games will both take advantage of this transformation and accelerate it – all while needing no additional infrastructure beyond what’s already planned.

The LA 2024 transportation plan will capitalize on the city’s visionary 30-year, USD 300 billion investment in multimodal transit, including a complete renovation of LAX and the first direct public transit link to the airport. About USD 88 billion will be made in projects deployed in time for the Games, including the expansion of a rail link to UCLA, the site for the LA 2024 Olympic and Paralympic Village. Since 1984, Los Angeles has added more than 198 kilometers of networked rail transit, with an additional 30 kilometers planned by 2024.

Our commitments to ease of transportation and low-carbon Games will drive partnerships with transit officials and innovators. Together we will reimagine Games-time transportation through new technologies in payment, information and demand management that optimize and personalize point-to-point movement throughout the area. Angelenos’ reliance on shared and public options to move among Games Sports Parks will propel lasting behavior shifts in their mobility habits. Los Angeles will be a stunning example of how the Games can drive behavioral and technological transformation.



USING BEST-IN-CLASS EXISTING INFRASTRUCTURE OLYMPIC AND PARALYMPIC VILLAGE AT UCLA

+ The LA 2024 Games will embrace the best of what the region already offers by using the existing campus of UCLA—a university with world class sustainability practices—as the site of its Olympic and Paralympic Village. As shown in the above diagram, UCLA has already implemented or planned leading sustainable practices (E) that will exist during the Games (G) and long after (L).

- 1. ROOFTOP SOLAR** (E,G,L)
- 2. LED LIGHTING** (E,G,L)
- 3. EV CHARGING** (E,G,L)
- 4. PASSIVE DESIGN** (E,G,L)
- 5. SOLAR WATER HEATING** (E,G,L)
- 6. NATURAL VENTILATION** (E,G,L)

- 7. CARBON SEQUESTRATION** (E,G,L)
- 8. ADVANCED OCCUPANCY CONTROL** (E,G,L)
- 9. CO-GENERATION PLANT** (E,G,L)
- 10. RECYCLED WATER USE** (E,G,L)
- 11. HIGH EFFICIENCY WATER FIXTURES** (E,G,L)

THE FUTURE OF SUSTAINABILITY IS

RADICAL REUSE
ENERGY POSITIVE
ZERO WASTE
HEALTHY & WELL
RESPONSIBLY SOURCED
WATER ACCOUNTABLE
ENVIRONMENTALLY PROTECTIVE
DRIVEN BY PARTNERSHIPS
LED BY COMMUNITIES

THE FUTURE OF SUSTAINABILITY IS

THE LA 2024 OLYMPIC
AND PARALYMPIC GAMES



LOS ANGELES

CANDIDATE CITY
OLYMPIC GAMES 2024



FOLLOW THE SUN

