

YOUR PARK, OUR PLANET



LONDON
LEGACY
DEVELOPMENT
CORPORATION

London Legacy
Development Corporation

**Environmental Sustainability
Report 2015/16**

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ENERGY



WATER



WASTE



MATERIALS



BIODIVERSITY



TRANSPORT



LIFESTYLES

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PARTNERS



ENERGY



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LIFESTYLES



INTRODUCTORY STATEMENT

Welcome to the 2015/2016 Environmental Sustainability Report for Queen Elizabeth Olympic Park.

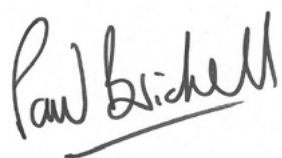
The year was significant on a global level as a breakthrough year where 196 state parties negotiated a new global climate change agreement to determine, plan and report on national greenhouse gas emissions, mitigation, adoption and finance.

Climate change mitigation and adoption continues to play a significant part of our work as we progress with the regeneration of Queen Elizabeth Olympic Park.

Chobham Manor, the first of five new residential neighbourhoods on the Park, began welcoming its first residents in 2016 and prove extremely popular, attracting high levels of interest due to the neighbourhood's culturally significant location, community facilities, open green spaces and excellent transport links. The high-quality design is not only aesthetically appealing, but also incorporates excellent environmental performance features directly related to climate change mitigation and adaptation in terms of energy performance, water use and waste management.

East Bank, the next stage in this tremendously exciting regeneration of Queen Elizabeth Olympic Park, will incorporate a world class culture and education district creating around 3,000 jobs, attracting 1.5 million visitors a year and delivering a significant boost to the economy of Stratford and the surrounding communities.

We are making the most of this unique opportunity by collaborating with partners across the UK and Europe to deliver smarter, more integrated sustainability solutions that provide measurable impacts, identifying innovative solutions to sustainability and climate change challenges.



Paul Brickell - Executive Director of Regeneration and Community Partnerships



INTRODUCTION



ENERGY



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LIFESTYLES

This is LLDC's third Environmental Sustainability Report (ESR) covering the second full year of the park's opening. The LLDC continues to work with communities, businesses, and the Mayor of London to continue the sustainable transformation of Queen Elizabeth Olympic Park and its venues.

This report presents the progress towards our seven key environmental themes, during the period April 2015 to March 2016, in line with the 2015/2016 financial year as set out in our Sustainability Guide to Queen Elizabeth Olympic Park 2030.

WHO WE ARE

The London Legacy Development Corporation is a Mayoral Development Corporation, formed in April 2012 in order to use the opportunity of the London 2012 Games and the creation of Queen Elizabeth Olympic Park to change the lives of people in east London and drive growth and investment in London, by developing an inspiring and innovative place where people want – and can afford – to live, work and visit.

We achieve our objectives by fulfilling a range of different roles and responsibilities that extend beyond the boundaries of the park itself. We are a:

- Regeneration Agency
- Land owner and developer, using some of our land to build new neighbourhoods.
- Estate manager of parklands, overseeing the maintenance of the parklands and former Olympic venues.
- Events host – we provide a platform for a range of events from international sporting and music events to local community events.
- Local Planning Authority – publishing our own local plan (that sets out the policies and principles that developers must follow when building within this area) and making planning decisions within our boundary.
- Employer of 126 members of staff.

OUR SUSTAINABILITY FRAMEWORK

Our environmental sustainability commitments are divided across seven key themes. These were set out in 'Your Sustainability Guide to Queen Elizabeth Olympic Park 2030' which was published in 2012.



ENERGY

Zero carbon homes and a reduction in carbon emissions across all our areas of work.



WATER

Reduce water demand, tackle local flooding, and reduce water course pollution.



WASTE

Zero waste direct to landfill through minimising waste production and increasing reuse.



MATERIALS

Use locally sourced, low environmental impact, and socially responsible materials.



BIODIVERSITY

Provide a variety of usable open spaces that promote and protect biodiverse habitat and wildlife.



TRANSPORT

Create well connected places that facilitate the use of sustainable modes of transport to and across Queen Elizabeth Olympic Park.



LIFESTYLES

Inspire healthy, inclusive, and sustainable lifestyles.

Progress against these themes extends across four key areas of our work

NEW CONSTRUCTION

These targets apply to all new buildings we have or will design or develop following the Olympic and Paralympic Games as part of the Legacy Communities Scheme.

VENUES & PARKLANDS

These targets apply to the maintenance and operation of the Park, along with the venues for which we are responsible.

EVENTS

These targets apply to events that take place across the parklands and in the venues of which the LLDC maintains ownership.

CORPORATE

This covers the performance of our office and activities of our staff.

HIGHLIGHTS

OVER THE YEAR

2015/16



ENERGY



WATER



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TRANSPORT



LIFESTYLES

May 2015

Mandeville Place opened – reuse of Paralympic Truce Wall panels. **Mayor** plants final tree.



June 2015

A pair of nesting Coots was found on one of the Lee and Stort Park tour boats. **We hosted a talk on climate change** with Engie and planted trees in Mandeville place for World Environment Day. We also took two local school classes on a **Biodiversity Treasure Trail** through the Park. 31% of staff participated in the **London Cycle Challenge**.



July 2015

Mobile Garden City at Chobham Manor opened to the public. The Park was awarded the **Green Flag** for the second year. **The Great Newham Run** marked the opening of the Stadium for the summer events season.

August 2015

Go East Fest – Arcola Energy and The Story-telling Snail provide environmentally themed entertainment. **UCL Spark Festival** is held on the Park. **Paddle boarding** through QEOP.

September 2015

The Stadium hosts five **Rugby World Cup** matches (Sept – Oct). **Beat the Street challenge** spreads through the Park (Sept – Nov).

October 2015

Hub67 wins the Blueprint award for Best Sustainable Project or Product.



HIGHLIGHTS

OVER THE YEAR

2015/16



ENERGY



WATER



WASTE



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BIODIVERSITY



TRANSPORT



LIFESTYLES

November 2015

Environmental sensors are installed on the Park as part of Capstone project.

December 2015

LLDC's Carbon Reduction Strategy is approved by the Planning Authority. First **Chobham Manor** residents move into their new homes.

January 2016

Santander cycles arrive on the Park. Dame Jessica Ennis-Hill helps launch the event.



February 2016

The Olympic Legacy Waterways Framework is published. **Sky High Science Exhibition** is held at the ArcelorMittal Orbit. HereEast hosts the **Tech Husting** with London Mayoral candidates.

March 2016

Sport Relief is hosted on the Park and in the venues. **Local school children** plant a new species of apple in Mandeville Place; Paradise Gold. The ArcelorMittal Orbit and Park boulevard lighting is turned off for **WWF's Earth Hour**.

Ellen MacArthur Foundation members visit for a sustainability focused tour of the Park. **The Olympic Stadium** running track is removed for replacement.

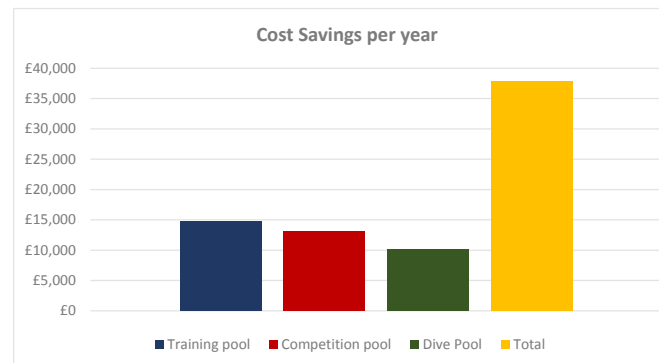


ENERGY

This year we continued to strive towards achieving our ambitious carbon emissions reduction targets across LLDC-led development on the Park and to reduce operational emissions from our public venues.

KEY ACHIEVEMENTS

- Fans installed in the London Aquatics Centre. The main competition pool hall is now kept at 27°C using 'destratification fans', which blow the rising warm air back down to pool level, improving energy efficiency and protecting expensive equipment in the roof whilst assuring the perfect temperature at pool side for swimmers.
- We installed solar powered lighting in the Copper Box Arena public gym, and electric maintenance buggies and boats across the park.
- Our partners Arcola energy ran energy workshops with young people on the Park raising awareness about hydrogen as a form of low carbon energy, and using hydrogen fuel cells to power elements of their event.





ENERGY



WATER



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MATERIALS



BIODIVERSITY



TRANSPORT



LIFESTYLES

CASE STUDY

The Arcola Theatre performance was mostly powered by hybrid and environmentally conscious solutions, managed by the experts from Arcola Energy.

White Light provided the Highlight Hydrogen energy system, refitted by Arcola Energy to create a carbon neutral power solution for the theatrical lighting set up. They also used a 24kVA Cygnus 3 Hybrid Power Generator, connected to solar panels to power the Public Address System.

This was coupled with a backup biodiesel generator. They found that the bio-diesel was not required as they only used approximately 20% of the stored energy output from the Cygnus system.

This meant the system was almost carbon neutral as all stored power came from sustainable sources, topped up with solar. Operationally this system was almost silent, which meant the power supply could be placed close to the performance space (in the Arcola Energy Zone), without interruption to the performance. The Energy Zone was staffed by an Arcola Engineer who was on hand to answer questions from the public.



Bluebeard's Castle - Directed by Oliver James - Performed by the Arcola Theatre - Supported by Arcola Energy.



WATER

Water management and conservation commitments at QEOP is guided by best practice in water management and conservation.



ENERGY



WASTE



MATERIALS



BIODIVERSITY



TRANSPORT



LIFESTYLES

KEY ACHIEVEMENTS

- Challenging targets for low water use in Chobham Manor homes (105 litres per person per day) was achieved by developers through installing low flow water fittings and water using appliances.
- Working with events managers we informed and supported the use of our sustainable events strategy launched this year, which included guidelines on water usage and monitoring.



Chobham Manor homes

CASE STUDY

ENGINEERING A BETTER DRAINAGE SOLUTION

The legacy use for the Queen Elizabeth Olympic Park (QEOP) Stadium involved modification of the Games phase 80,000 seat athletics stadium into a 54,000 seat multi-event stadium suitable for athletics, pitch sports and concerts. The roof span of the Stadium was significantly increased during transformation, resulting in the need to provide increased drainage capacity.

The existing drainage capacity was increased by installing larger diameter pipework, and additional drainage was also provided in other areas including the new ticket office, and spectator facilities. Overlay drainage facilitates the increased use of amenities during maximum capacity events such as concerts and new community facilities. New interceptors were also installed, which ensured that water discharged into City Mills River met the Environment Agency and Canals and Rivers Trust water quality standards.

The drainage solution installed in the Olympic Stadium Transformation vastly improved the ability of the Stadium Operator to access the drainage system if problems occur. By moving the drainage out of the building and into an external combined area, the risk of drainage materials entering the building was eliminated.

The drainage solution brought the following benefits:

- 40% savings in drainage programme time
- 50% reduction in manholes
- 30% reduction in excavation and reinstatement of materials
- Reduced construction safety risks



WASTE

LLDC has set itself, and its partners, challenging waste management targets to apply the waste management hierarchy, designing out waste, maximising recyclable waste and ultimately reducing the amount of waste sent directly to landfill.



ENERGY



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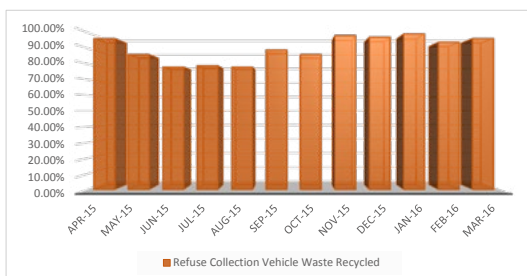


LIFESTYLES

KEY ACHIEVEMENTS

Construction waste

- 100% diversion of waste from landfill



CASE STUDY

ACHIEVING 100% DIVERSION OF WASTE FROM LANDFILL

Despite the scale of the transformation, the Olympic Stadium Transformation diverted 100% of waste from landfill.

Material reuse and waste segregation ensured value could be recovered from the waste.

A robust logistics and waste management plan was implemented where waste was segregated, and separate waste streams were managed and processed separately then reused at a range of different facilities across the region: non-hazardous waste at a materials recycling facility in Leyton, inert materials at soil recycling facilities, where they were processed and reused as recycled aggregate.

Timber was reprocessed at a wood recycling facility then used as either MDF or shipped to Belgium for use as biomass. Metals were removed for reuse or recycling, plasterboard segregated and fed into a closed loop recycling process and sent to plasterboard and cement manufacturers.

Hazardous waste was removed and processed to extract the contaminated elements from the non-contaminated portion for recycling. The hazardous waste and other residual materials were incinerated in an energy from waste facility.

THE RESULTS

- 100% waste diversion from landfill, maximising reuse
- Generated 12.8m³ of waste per 100m²



MATERIALS

LLDC is seeking to encourage the use of environmentally responsible and responsibly sourced materials across all of its works streams.



ENERGY



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TRANSPORT



LIFESTYLES

KEY ACHIEVEMENTS

- 15% reduction in embodied carbon (compared to industry baseline) achieved in East Wick and Sweetwater designs for residential development.
- Mandeville Place peace garden was opened with the truce walls created using reused bricks.
- Timber Lodge now uses compostable materials for food packaging and cutlery.
- LLDC staff involved in a working group responsible for the updating the GLA Responsible Procurement Policy.

CASE STUDY

REUSING BRIDGE DECKING WITHIN GANDHI CHAPLIN MEMORIAL GARDEN, NEWHAM

Through the redevelopment of a neglected but historically significant area in Canning Town Newham, Groundwork London wanted to commemorate the historic meeting that occurred between Mahatma Gandhi and Charlie Chaplin in 1931.

The aim was to create a memorial garden that celebrates cultural diversity in this neighbourhood. As part of the community-led design process, Groundwork London needed good quality timber to create a comfortable and accessible space where anyone would feel welcome. The reuse of 200m² bridge decking from the Olympic Stadium within the community garden helped Balfour Beatty and the LLDC reuse materials responsibly and provided much needed materials for a local community project.

Groundwork London and Newham Young Stars – a youth group challenging gang violence – involved local people in the garden design. Ex-offenders worked as landscape gardeners, alongside volunteers from Active Newham and Radha Krishna Temple Hindu Centre. As a result of this effort, sustained employment was created for five Newham residents.

THE RESULTS

The first phase of Gandhi Chaplin Memorial Garden was successfully completed in May 2015. Several community, school, arts, regeneration and disability groups were involved in the project.

150 tonnes of materials were collected and more than 10,000 plants for this and other community projects.



BIODIVERSITY

LLDC remain committed to providing a variety of safe open spaces, and to protecting and enhancing natural wildlife habitats throughout the park so that its habitats are of a sufficient quality to support a diverse range of wildlife and biodiversity.



ENERGY



WATER



WASTE



MATERIALS



TRANSPORT



LIFESTYLES

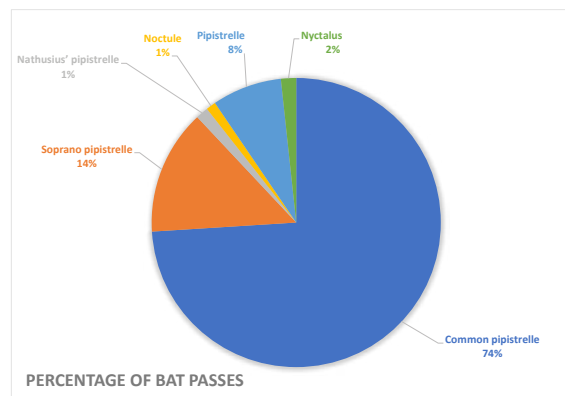
KEY ACHIEVEMENTS

- 4 insect species afforded nationally scarce status recorded on the park: *Polydrusus formosus*, *Mecinus janthinus*, *Hippodamia variegata*, *Longitarsus ballotae*.
- Mallard ducks confirmed to be breeding in the Park.
- Sand Martins confirmed nesting on the Park. Our Wetlands provide a feeding habitat for the birds so that the Sand Martins can feed on the wing.
- Starlings regularly observed in the north of the Park, particularly in the species-rich grasslands, often in large flocks.
- Awarded Green Flag for a second year running, confirming the high standards to which our park is maintained and its excellent facilities.

CASE STUDY

Six species of bat were recorded on the Park: Common pipistrelle, Soprano pipistrelle, Nathusius pipistrelle, Noctule, Nyctalus, and an unidentified Pipistrelle species was also detected. The majority of all bat passes recorded (74%) were Common pipistrelle. Although no new species of bat were recorded on the Park this year, levels of bat activity remained broadly similar to previous years.

The highest level of bat activity was recorded along the East Marsh section compared to the other three sections, as has been the case in previous years. East Marsh currently offers the optimum habitat for bats, with its mature tree lines which provide good foraging habitat and shelter from strong winds, forming a long corridor which is also very dark.





TRANSPORT

Reducing the need to use cars and public transport for local people to move around the park is a key priority at LLDC as was the need to support healthy lifestyles and sustainable modes of travel.



ENERGY



WATER



WASTE



MATERIALS



BIODIVERSITY



LIFESTYLES

KEY ACHIEVEMENTS

- To date we have achieved our target of “no home to be more than 350m away from a bus stop”, which has been demonstrated at the Chobham Manor development, whilst East Wick and Sweetwater developments are also on track to achieve the same standards.



CASE STUDY CYCLE HIRE SCHEME



London's flagship Cycle Hire Scheme was extended to include Queen Elizabeth Olympic Park. This included the expansion of eight new docking stations with a total of 320 docking points, fully integrating Queen Elizabeth Olympic Park into London's Cycle Hire area, opening up the 560-acre Park to cyclists of all abilities and deliver a further cycling legacy from the London 2012 Olympic and Paralympic Games. Work on the expansion began in 2015 and was completed by early 2016.

The docking stations have been placed at key locations around the Park, including the ArcelorMittal Orbit, the London Aquatics Centre and the Lee Valley Velopark, providing visitors with a quick, cheap and fun way to explore the Park's many features. Three docking stations will also be installed around Hackney Wick station, linking the Park's expansion with the existing hire area.

Expanding the scheme also makes it easier for people to use Cycle Hire bikes to visit Waltham Forest, which is being transformed for cyclists as one of the Mayor's "Mini Hollands", as well as the Quietway leading from Mile End to Barkingside.



LIFESTYLES

QEOP
continued to deliver a
wide range of events and activities
across the park, promoting more sustainable
lifestyles for local communities and visitors.



ENERGY



WATER



WASTE



MATERIALS



BIODIVERSITY



TRANSPORT

KEY ACHIEVEMENTS

- A wide range of volunteers from all sectors of the community continues to be attracted to the QEOP offer with over 1000 active volunteers and 175 new volunteers this year.
- Total Number of new Volunteers: 175.
- Total Number of Volunteers (number completed at least one shift): 1075.
- Total Number of Volunteering Days - Conservation: 189.



CASE STUDY

ARCOLA THEATRE/AREOLA ENERGY: OPERA IN THE EAST

Bela Bartok's classical masterpiece came to life with large-scale puppets operated by a cast of community performers from across East London.

Around 600 people across two performances in Alfred's Meadow, Queen Elizabeth Olympic Park as part of Go East Fest! Environmental sustainability was central to the design and construction of the puppets, set and props. Approx. 75% of the materials were reclaimed, reused or recycled. We involved the wider Arcola Community via a drive to recycle old VHS cassette tape and blue shopping bags to create Bluebeard's beard and hair.

All material for the puppet costumes were donated by Immediate Theatre and most of the material used were off cuts supplied by local puppet makers and theatres. The set was constructed using materials reclaimed from the redevelopment of the Arcola Tent site. Professional production experience was gained by 3 university placement students (UK and US) as Assistant Director and Movement Directors, and students from Rose Bruford supported the construction of the puppets and local creatives were engaged in set, costume and scenic art design and construction.



LOOK AHEAD



ENERGY



WATER



WASTE



MATERIALS



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TRANSPORT



LIFESTYLES

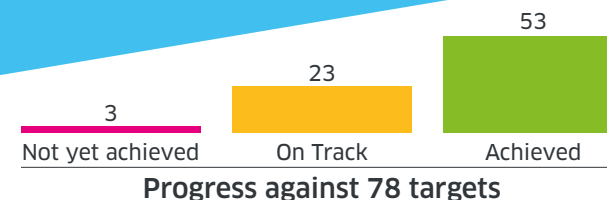
ARCELORMITTAL ORBIT SLIDE will add to the unique viewing experience and breath-taking views of London offered by the 114.5m tall Arcelormittal Orbit, famously designed by Sir Anish Kapoor and Cecil Balmond for London 2012. The slide is designed by German artist Carsten Höller in partnership with the creator of the ArcelorMittal Orbit, Anish Kapoor. The slide will now boast the title of the world's tallest and longest slide, and is scheduled to open in summer 2016.

MOSSBOURNE RIVERSIDE ACADEMY will open as the first new and permanent school at Queen Elizabeth Olympic Park. Located in Hackney and part of the Mossbourne Federation, the school will begin by providing education for Early Years Foundation Stage and Key Stage 1 and will evolve to provide for all primary year groups. The school will form part of East Wick, one of five new communities on the Park, neighbouring Here East, a new hub for the creative and technology industries.

FREE PARK WI-FI will be made available for visitors across all 560 acres of the Park, making it the largest public Wi-Fi network of its kind in the world. Apart from giving visitors free access to the internet, the service helps us understand how different areas of the Park are used by different groups of people. Understanding this ensures that the Park is managed in the best way possible and helps us to improve the service we provide to both visitors and residents.



YOUR PARK, OUR PERFORMANCE



TARGETS

PROGRESS 2015/16

NOTES

NEW CONSTRUCTION

Require a minimum achievement of Code for Sustainable Homes Level 4 for all new homes under current standards.



Although the Code for Sustainable Homes is no longer supported by Government, LLDC's first new homes at Chobham Manor achieved CfSH level 4. There is no direct equivalent standard to adopt in its place, so alternatives under review.

Achieve Zero Carbon Homes on LLDC-led development before 2016.



First zero carbon homes delivered at Chobham Manor.

Require a 65% reduction in emissions over Building Regulations 2010 through fabric improvements and on-site features.



This challenging target is being pursued in planned developments.

Permit up to 35% of emissions mitigation through allowable solutions in surrounding communities as part of the Development Corporation's regeneration remit.



LLDC's Carbon Offset Local Planning Supplementary Planning Document has been adopted, which will assist in meeting this target.

40% reduction in emissions over Building Regulations 2010 for non-residential buildings on LLDC-led developments; Zero Carbon standard for non-residential buildings when required by government.



All non-residential buildings in Chobham, Eastwick and Sweetwater are set to achieve this.

15% reduction in emissions by 2020 from in-use energy through engagement with occupants of LLDC led developments and the promotion of energy efficient home appliances.



LLDC's Carbon reduction strategy has been approved by planning and aids in meeting this target.

Support the extension of the district heating network beyond the Park following connection to the Stratford Halo/Genesis development.



The Genesis development scheme was connected to our district heat network in November 2015.

Explore provisions to mitigate fuel poverty.



LLDC continues to build homes to high degrees of energy efficiency to ensure that resident fuel bills are as low as possible.

VENUES & PARKLANDS

25% reduction in operational emissions intensity in LLDC owned venues and parklands by 2020.



LLDC achieved an absolute reduction in emission reduction compared to the previous year. However some figures were estimated.

Provide low carbon site lighting and use energy efficient park maintenance equipment.



LLDC installed solar and wind powered lighting, electric maintenance buggies and boats, and venue operators installed self-powered cardiovascular machines in the Copper Box Arena public gym.

EVENTS

Work towards delivering low or zero carbon events in the Park.



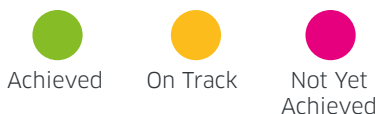
LLDC updated our Sustainable Events Guide' which is distributed to all events planners delivering events in site, and hosted the SHELL ecomarathon which highlights energy efficiency in motorised transport.

CORPORATE

25% reduction in corporate emissions intensity by 2020.



Data unavailable for this period. However, LLDC continue to implement measures and will report on this target in the next financial year.





WATER

YOUR PARK, OUR PERFORMANCE

 Achieved
  On Track
  Not Yet Achieved

	TARGETS	PROGRESS 2015/16	NOTES
NEW CONSTRUCTION	Potable water use of no more than 105 litres per day per person in homes on LLDC led developments through reducing demand and use of low flow fittings and appliances.		Chobham Manor homes designed to deliver 90lppd, with exemplar homes designed to achieve 80lppd. Eastwick and Sweetwater embedding 90lppd within their plans.
	Rainwater harvesting and greywater treatment to be incorporated in new LLDC led developments.		Chobham Manor exemplar homes will have grey water recycling. East Wick and Sweetwater embedding these features where they contribute to meeting their 90lppd target.
	Initiate studies to optimise the use of the Old Ford Water Recycling Plant and non-potable water network for irrigation and toilet flushing.		Study completed and LLDC is working with Thames Water to consider and secure long-term future plans for the site.
VENUES & PARKLANDS	Protect and improve on the 40% reduction in potable water use designed into the venues.		The handover of the stadium report ensured that designed-in water saving devices were protected. In addition, additional water saving measures will be incorporated into designs for Culture and Education District.
	Irrigate parklands through rainwater harvesting and greywater.		Parklands are irrigated through the non-potable water network.
	Develop a strategy with Canal & River Trust to enhance and protect the Park's blue ribbon network.		Strategy has been produced and published.
EVENTS	All LLDC events to limit use of bottled water by encouraging the provision of alternative water supplies.		Events encouraged to offer water bottle filling stations and water fountains.
	Work with external event companies to reduce potable water usage in the operation of their events.		This is currently implemented through the Sustainable Events Guide.
CORPORATE	Measure water intensity against DEFRA benchmark.		Data unavailable.



ENERGY



WASTE



MATERIALS



BIODIVERSITY



TRANSPORT



LIFESTYLES



WASTE



ENERGY



WATER



MATERIALS



BIODIVERSITY



TRANSPORT



LIFESTYLES

YOUR PARK, OUR PERFORMANCE



Achieved



On Track



Not Yet
Achieved

	TARGETS	PROGRESS 2015/16	NOTES
NEW CONSTRUCTION	Maximum 5% of construction, demolition and excavation waste directly sent to landfill (excluding hazardous material).	On Track	Data incomplete for this reporting period.
	Zero municipal waste directly sent to landfill by 2025. Interim target of 30% maximum municipal waste directly to landfill by 2020.	Achieved	Currently exceeding target.
	Ensure all new buildings have adequate internal and external storage space for recyclable household waste.	Achieved	All new buildings are designed to comply with borough guidance on space required to facilitate recyclable household waste.
	Promote on-site compost facilities to reduce the amount of household waste sent to landfill.	Not Yet Achieved	Target under review as there is limited space for a facility of this type.
VENUES & PARKLANDS	Recycle or compost 70% of venues and parklands waste by 2015.	Achieved	97% recycled.
	Zero parklands waste direct to landfill by 2030.	On Track	Average over 89% diverted from landfill during this reporting period.
	100% provision of recycling facilities in public areas.	Achieved	Parklands waste is sent to a waste centre where waste is sorted into waste streams and very high levels of recycling and recovery are achieved. All bins on Park therefore facilitate recycling of waste.
	Signs and information across the Park will support recycling and composting.	Achieved	LLDC have signs identifying the use of non-potable water across the Park.
EVENTS	"Develop best practices to reduce waste production and require event operator to comply with guidelines."	Achieved	Guide for sustainable events is given to all events organisers.
	Zero events waste direct to landfill by 2020. For events held in venues, work towards the target immediately.	On Track	LLDC have issued events organisers with guidance on how to collect and provide this information to LLDC as part of the Sustainable Guide to Events Management. LLDC will track the data provided to us.
CORPORATE	Deliver education programmes for visitors, workers, and residents about reduction and management of waste.	Achieved	See the above case study.
	Explore ways to improve our office recycling and reuse rates.	On Track	Discussions held with building managers around increased waste streaming; outcome awaited.



MATERIALS

YOUR PARK, OUR PERFORMANCE

 Achieved
  On Track
  Not Yet Achieved

	TARGETS	PROGRESS 2015/16	NOTES
NEW CONSTRUCTION	15% reduction in embodied carbon in new construction, as compared to industry baseline (to be monitored and published).		Eastwick and Sweetwater designs for residential development incorporate features to reduce embodied carbon content of development.
	At least 25% recycled content of aggregate within new buildings and infrastructure (by weight).		Achieved across all developments during this reporting periods.
	At least 20% of construction materials to be from a reused or recycled source (by value).		LLDC is working with developer partners to understand how best to capture the information required to report against this target.
	100% of timber and timber products from legal and sustainable sources.		This requirement is passed on through all construction contracts on the Park.
	No use of HFCs where acceptable alternatives exist.		This requirement is passed on through all construction contracts on the Park.
VENUES & PARKLANDS	100% of timber and timber products from legal and sustainable sources.		Use of timber products on the Park is limited, but requirements are in place to ensure that they are sourced responsibly and sustainably.
	Use of recyclable and biodegradable materials for packaging, particularly for food.		Timber Lodge uses compostable materials for food packaging and cutlery.
EVENTS	Temporary structures for events must be designed and built for reuse.		LLDC event organisers are all provided with the Queen Elizabeth Olympic Park sustainable guide to events.
CORPORATE	Collaborate with universities, NGOs and other research bodies to identify low impact building materials and products.		Research undertaken and report produced in partnership with University College London.
	Require all suppliers of goods and services to adhere to our Sustainable Procurement Policy.		Compliance with Mayor's Responsible Procurement Policy required.



ENERGY



WATER



WASTE



BIODIVERSITY



TRANSPORT



LIFESTYLES



BIODIVERSITY

YOUR PARK, OUR PERFORMANCE

 Achieved
  On Track
  Not Yet Achieved

	TARGETS	PROGRESS 2015/16	NOTES
NEW CONSTRUCTION	Public areas to contribute to Biodiversity Action Plan and link to existing natural corridors.		This has been achieved in the Chobham Manor design and development where a natural corridor runs through the entire site.
	Incorporate Sustainable Urban Drainage Systems (SUDS) in streets and the public realm where feasible enabling species-rich planting and local irrigation potential.		Sustainable Urban Drainage Systems have been incorporated into the design of our most recent developments at Eastwick and Sweetwater.
	Design buildings and public space to reduce the urban heat island effect.		Green roofs encouraged in all planning applications and has been incorporated into the Chobham Manor Design.
VENUES & PARKLANDS	Provide 102 hectares of publicly accessible open space, capable of being designated as Metropolitan Open Land.		LLDC's 2015 monitoring report demonstrate that this amount of space remains available and will be monitored and this is kept under review.
	Provide 45 hectares of Biodiversity Action Plan habitat and links with existing corridors.		LLDC's Biodiversity Action Plan monitoring report 2015 shows that we are currently over-providing, and this is kept under review.
	Achieve designation as a Site for Metropolitan Importance (SINC) for Nature Conservation by 2024.		A sensitive approach to the Park's wildlife and habitats continues to support successful delivery of or Biodiversity Action Plan targets to achieve SINC status.
	Achieve green flag status by 2015.		Green Flag status has been maintained and achieved.
	Aim to enhance the ecological value of the Park and ensure the land and its natural resources are protected forever.		BAP monitoring report 2015 shows that this is being achieved.
	Landscaping designs that avoid chemical control of weeds, pests and diseases.		Soil decontamination and complementary planting techniques coupled with weed prevention fabrics helps minimise chemical use and invasive species populations.
	No peat or peat-based products to be used on site.		No peat-based products are used on the site.
	Maintain parkland access while ensuring the protection and improvement of habitats.		LLDC's 2015 Biodiversity Action plan monitoring report demonstrates that biodiversity on the park is establishing itself well.
EVENTS	Assist the attendees in an appreciation of the Park's biodiversity.		Events in this period included the story-telling snail and biodiversity treasure trail were amongst the highlights of our biodiversity linked events in 2016.
	Respect and protect open space through attention to event location, pedestrian circulation and sight lines.		Events are held in environmentally less sensitive areas, all events promoters are provided with LLDC's sustainable guide to events in advance of working on the Park.
CORPORATE	Encourage staff to take part in biodiversity awareness activities.		Staff celebrated world environment day through an environmental photo competition.
	Provide opportunities for local people to get involved in nature conservation work and biodiversity-related activities.		Held world environment day event at the Podium, which was themed around consuming with care – attended by Park Champions.



ENERGY



WATER



WASTE



MATERIALS



TRANSPORT



LIFESTYLES



TRANSPORT



ENERGY



WATER



WASTE



MATERIALS



BIODIVERSITY



LIFESTYLES

YOUR PARK, OUR PERFORMANCE



Achieved



On Track



Not Yet Achieved

	TARGETS	PROGRESS 2015/16	NOTES
NEW CONSTRUCTION	Design walkable and cycle-friendly neighbourhoods with safe streets and paths, and secure cycle parking in homes, offices, and venues.		This is required of all of our developers and set out in our design codes. LLDC has also established a sustainable and active travel group to bring together Park stakeholders to promote an integrated approach.
	No home to be more than 350m away from a bus stop.		LLDC remain on track to ensure that, at full build out, no home will be more than 350metres away from a bus stop.
	20% of car parking spaces to have access to electric charging facilities.		This has been embedded within the plans for the new neighbourhoods at Chobham Manor and East Wick and Sweetwater.
	Support demand management techniques to discourage private transport and encourage public transport, car-sharing, car-clubs, cycling, and walking.		This year LLDC launched a cycle hire scheme on the Park to promote active travel to add to the suite of public transport choices on the Park. Public transport is also encouraged through the LLDC code of construction practice for our developer partners.
	Ensure provision of shower and changing facilities in offices to support commutes by cycle.		This is embedded within the designs for our new neighbourhoods.
	Parking ratios to be London Plan Standard or less.		This is embedded within the designs for our new neighbourhoods.
VENUES & PARKLANDS	Ensure that 95% of visitors to venues and attractions arrive by public transport, cycle or foot.		Data unavailable for this reporting period.
	Facilitate a cycle hire scheme within the Park.		Achieved - Santander Bikes on Park with 7 hire stations.
EVENTS	Ensure that 95% of visitors to events arrive by public transport, cycle or foot.		Data unavailable for this reporting period.
	Information provided with tickets on sustainable transport options to the Park.		LLDC have had mixed success in getting this onto individual events tickets, however, information about public transport options at the Park is available on the QEOP website.
CORPORATE	Maintain our Travel Plan Framework for all new developments and initiatives within the Park.		Detailed travel plans for the venues have not yet been submitted; the requirement to submit them sits with our venue operators.
	Encourage sustainable transport modes for staff commuting and work-based travel.		Signed up to the Santander corporate scheme with TfL.



LIFESTYLES



ENERGY



WATER



WASTE



MATERIALS



BIODIVERSITY



TRANSPORT

YOUR PARK, OUR PERFORMANCE



Achieved



On Track



Not Yet Achieved

	TARGETS	PROGRESS 2015/16	NOTES
NEW CONSTRUCTION	Develop an occupant engagement programme to achieve a 15% reduction in emissions over five years, with savings to be maintained each year.	●	LLDC issued our carbon reduction strategy, which now forms part of our planning obligations for developers on the Legacy Community Strategy to adhere to.
	Through the Estate Management Strategy, develop incentives and programmes for residents to optimise sustainable lifestyles.	●	LLDC undertook research into environmental engagement initiatives and used this to develop the Carbon Reduction Strategy for LLDC-led development, which sets out the steps that are required by its developer partners to promote sustainable living on the Park.
	100% of homes to have smart meters to collect energy consumption data to make more efficient use of resources.	●	LLDC 'smart homes' feasibility study involves a scoping exercise into how LLDC can make use of intelligent algorithms.
	Facilitate IT infrastructure including super-fast broadband and Wi-Fi to support working from home and venues in and around the Park.	●	Free wi-fi is now available at the park.
VENUES & PARKLANDS	Encourage the public to use open space for sport, physical wellbeing, leisure activities, social gathering and cultural events.	●	Over 51,000 participants including event-goers, volunteers, and other recreational activities making use of the park facilities throughout the reporting period.
	Adopt and implement the Mayor's Food Legacy Pledge and the Healthier Catering Commitment.	●	This is a requirement in our park kiosk contracts.
EVENTS	Collaborate with the event industry and non-governmental organisations to share knowledge and integrate sustainability into the sector.	●	LLDC updated Sustainable Events Management Guide is circulated to staff for use and distribution.
CORPORATE	Promote educational initiatives and research programmes to enable sustainable behaviour to become the norm in and around the Park.	●	London Legacy Development Corporation Outdoor Classroom Curriculum has been developed and made available for schools to use around the park.
	Provide environmental awareness training for all staff and contractors.	●	Sustainability is covered in staff induction and on our intranet.