# **Queen Elizabeth Olympic Park**



SITE: Queen Elizabeth Olympic Park | SIZE: 225 Ha

**LOCATION:** Stratford London **DATE:** 2012

**CLIENT:** London Legacy Development Corporation (LLDC)

**DESIGN TEAM:**EDAW – design

LDA + Hargreaves - implementation

### **Project Description**

The Queen Elizabeth Olympic Park (QEOP) is one of London's largest regeneration projects. Underpinning all LLDC's work are four priority themes: delivering inclusive growth and community well-being; delivering inclusion and diversity; delivering high quality design; and delivering sustainable development and responding to the climate emergency.

### **Approach to Low Carbon**

In line with The Paris Agreement, LLDC has set a target of net zero carbon by 2030. 'Our approach is to consider climate risk and embed climate resilience and nature positive design in order to deliver an exemplar, future ready Park and surrounding neighbourhoods.' The key features of this city park include its low carbon approach to the use of materials and the restoration of post-industrial land to create extensive green and blue infrastructure.

### **Carbon Calculations**

Sections 4 and 5 of the Park Design Guide present calculations for the embodied carbon of select surfacing materials and street furniture.

#### Links

Park Design Guide | Queen Elizabeth Olympic Park 3414-ID-002-09-Report-and-Design-Guidance.pdf









# **THINK LIFECYCLE**

- Lifecycle has been a core consideration from the outset with the creation of a venue for the London 2012 Olympics and Paralympics being designed to evolve into a city park.
- The selection of materials has considered lifespan and potential requirement for replacement.
- Monitoring by landscape architects is ensuring that plans for improvements and renewals are ongoing.

# **PROTECT CARBON STORES**

- · Soil cleaning and repurposing has helped restore this important carbon store.
- Extensive planting of trees, shrubs and grasslands has created an evolving carbon sink and ensured soils are covered and enabled to restore naturally.
- The restoration of waterways has increased the potential for carbon storage associated with wetlands.

### **DESIGN RESPONSIVELY**

- Opening up the River Lea channel has improved surface water management and removed 4,000 homes from flood risk.
- Contaminated soils from previous industrial land uses have been cleaned and repurposed as substrate under hard surfacing and low nutrient soils for meadow grassland.
- Stratford's role as a major transport hub has been used to connect with walking and cycling routes across the park and improve further integration with wider public transport links.

# **LESS HARD MORE SOFT**

- Green Infrastructure is the defining feature of the park, and includes amenity green spaces, allotments, civic spaces, green corridors, play and sports facilities, formal gardens and waterways.
- Hard landscaping has been minimised to a network of paths encouraging active travel and although some event spaces are hard surfaced, a number are surfaced in grass.

## **SPECIFY LOW CARBON**

- Research into the comparative embodied carbon of surface materials and street furniture has been undertaken as part of this project.
- Low carbon materials and construction have been implemented in balance with other design considerations.