Sustainability & the London 2012 Olympics

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The Olympic Games - the world’s biggest event

- 203 countries
- 5,000 Olympic Family
- 17,800 athletes & team officials
- 25,000 media
- 8 million tickets sold

The Paralympic Games - two weeks later

- 170 countries
- 1,000 Paralympic Family
- 4,000 athletes & team officials
- 4,000 media
- 100,000 workforce including volunteers
- 4 billion global audience
Lower Lea Valley
Challenge – Olympic Park, August 2006
The ODA’s task

Transform
• 200 Hectares of Brownfield land across 4 London Boroughs
• Waterways and rail lines
• 200 buildings, 52 electricity pylons in situ

To
• 14 permanent and temporary sporting venues
• 20km new roads, 13km tunnels, 26 bridges, new utilities infrastructure
• 80 hectares of new parklands
• The Olympic Village

via
• Masterplanning and submission of around 750 planning applications
• Around 70 individual projects
• 300 contracts
Legacy Masterplan
Our Six Priority Themes

1) Health, safety & security
2) Design quality
3) Inclusion & accessibility
4) Employment & skills
5) Sustainability
6) Legacy
ODA Strategic Framework

Mission
To deliver venues, facilities, infrastructure and transport on time for the London 2012 Olympic and Paralympic Games that are fit-for-purpose and in a way that maximises the delivery of a sustainable legacy within the available budget.

Overarching themes

Time, Cost and Fit for purpose

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London 2012 sustainability strategies

“We want London 2012 to be the first ‘sustainable’ Games, setting new standards for major events.”

- Towards a One Planet 2012
- London 2012 Sustainability Policy
- ODA Sustainable Development Strategy
- London 2012 Sustainability Plan

www.london2012.com/sustainability
ODA Sustainable Development Strategy

12 Headline Objectives

- Carbon
- Water
- Waste
- Materials
- Biodiversity
- Environmental impacts
- Supporting Communities
- Transport and Mobility
- Access
- Employment and Business
- Health and Well-being
- Inclusion
ODA Sustainable Development Strategy

Selection of results

- 99% demolition waste to be reused or recycled (target 90%)

- 58% CO₂ reduction (target 50%)

- 60% reduction in potable water consumption (target 40%)

- 100% legal and sustainable timber

- 64% of materials delivered by rail or water (target 50%)

- 45ha of biodiverse habitat
Demolition

- 192 buildings demolished across the Olympic Park site
- Over 95 per cent of demolition materials being recycled
Contaminated Land Treatment
Soil Washing Plant
Energy Centres and Networks

First Phase Capacities

- 120 MW Heating
- 45 MW Cooling
- 20 MW Electrical
- 20 km Networks
Energy efficient design

CCHP

Biomass boilers
Trigeneration
Green spaces

- Olympic Park is the largest new park in London for 100 years
- 102 hectares of open space in legacy
- 45 hectares of ecology rich parkland, wetlands etc
- bat boxes, frog ponds, otter holts
Olympic Park
Resource Efficiency
Overlay of the Stadiums
Post Olympic Games
The Copper Box

Multiuse Arena in Hackney for sport, music and community events
Naturally lit with 88 light pipes, bottom tier seats removable for events
Basketball Arena
Basketball
Achievements

On Time
Big Build construction programme delivered a year ahead of Games

On Budget
£8bn Final cost

Fit for Purpose
Designed for legacy as well as Games

Priority Themes
Achievements above industry benchmarks
Sustainability & the Murdoch University Masterplan
Discovery Way
Looking North West towards the Paddock
Murdoch Square + the Paddock
- a ‘bush’ piazza delivering public spaces
  and outdoor learning spaces
WATER TREATMENT AND REUSE
RAINWATER HARVESTING & REUSE
GREEN INFRASTRUCTURE & BIODIVERSITY
ROOF TOP GARDENS AND VEGETATED FACADES
Thank you

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Learning Legacy Website –
http://learninglegacy.independent.gov.uk