

Green build on track

1 Olympic Stadium

- lightest Olympic Stadium to date – minimising use of steel and reducing carbon footprint
- unwanted gas pipelines used for the roof truss
- high recycled content used for concrete foundations
- materials delivered by water
- bird and bat boxes built-in

2 Aquatics Centre

- high recycled content used for concrete foundations
- water used to clean the swimming pool filters will be recycled for toilet flushing
- 'living roof' – biodiversity space for wildlife
- sustainable timber used for cladding
- bird and bat boxes built into Aquatics Centre bridge

3 Velodrome

- light-weight venue design lowers carbon footprint
- strategically placed roof lights will reduce the need for artificial light
- almost 100% naturally ventilated
- designed to reduce water consumption by 44%
- rainwater harvesting for toilet flushing and landscape irrigation

4 Handball

- 100% recycled aggregate for piling
- rainwater harvesting to reduce potable water demand
- 100 light pipes in the ceiling to allow natural light into the venue

5 Olympic Village

- will achieve the Government's new 'Code for Sustainable Homes Level Four' which is a national environmental standard, resulting in a 44% reduction in carbon emissions and 30% reduction in water use
- first time that a large scale development will meet 'level four' in the UK

6 Media Centre

- 'living roof' - biodiversity space for wildlife
- bird and bat boxes
- use of recycled water to flush the toilets and for other non potable uses

7 Energy Centre

- will provide efficient and low-carbon power to the Olympic Park
- use new technology including biomass boilers and a Combined Cooling Heat and Power (CCHP) plant to capture the heat generated as a by-product of electricity production



8 Wind turbine

- a new 120m high wind turbine will also help contribute towards a 20% renewable energy target
- it will produce enough energy to power over 1,000 homes a year

9 Waterways

- over 3km of waterways restored and renewed
- waste is being taken away by barges through the recently dredged waterways and a new lock and water control structure

10 Rail

- over 50% of materials by weight are delivered by train including aggregate, kerbs and drainage units

11 Soil-washing

- one of the biggest clean-up operations of its kind
- cleaning and reusing hundreds of thousands of tonnes of soil which would otherwise have to be transported off site
- a 'soil hospital' produces clean material used in the creation of the foundations and parklands

12 Concrete batching plant

- an on-site concrete batching plant supplies low-carbon concrete to all contractors working on the project
- helps reduce the embodied carbon of venues on the Park
- raw materials needed to make the concrete are substituted with secondary or recycled materials such as by-products from coal power stations, steel manufacture and recycled glass

13 Parklands

- a new 100 hectare urban park that will provide a green space for people and wildlife
- over 4,000 trees, 74,000 plants, 60,000 bulbs and 300,000 wetlands plants; the largest planting project ever undertaken in the UK
- also creating wildlife habitats including reedbeds, grasslands, ponds, woodlands, 525 bird boxes, 150 bat boxes and artificial otter holts

