



EDGBASTON REDEVELOPMENT BUILDING INFORMATION

Further/additional information will be added during the construction period.

The building is being assessed using the BRE Environmental Assessment Method (BREEAM). This is the leading and most widely used environmental assessment method for buildings. It sets the standard for best practice in sustainable design and has become the de facto measure used to describe a building's environmental performance. The design and construction of the building is on target to achieve a VERY GOOD rating.

The building comprises a series of multi-tiered spectator stands, new players and officials areas, rooms and appropriate camera balcony for written and broadcast media, shop, museum, club offices, banqueting and exhibition spaces and boxes and lounges. It occupies approximately one third of the space around the pitch perimeter. Building commenced in April 2010 and the date for practical completion is the 1st July 2011.

- The key innovative and low-impact design features of the building

1. Energy efficient plant design including

- low velocity ductwork design resulting in specific fan power
- airside heat recovery reducing heating and cooling energy use
- EC and DC motors in fan coil units reducing fan motor power
- independent room control for HVAC plant enabling plant to be isolated when room not in use
- thermostatic control on all radiators
- automatic reset of room temperature settings to avoid wasted energy use

- zonal energy monitoring to identify high energy uses
- PIR control to lighting in certain areas to reduce energy use
- CO2 controlled ventilation system enable reduced supply rates during low occupancy using inverters

2. Building envelope performance (U-values and air leakage) better than the minimum standards defined within the Building Regulations

3. Low areas of glazing on southern elevations reducing solar heat gains

Total building footprint – 6184 m²

Size of function areas

Spectator seats – 8,300

Players area – 912 m²

Shop – 312 m²

Museum – 328 m²

Club offices – 488 m²

Banqueting – 843 m²

Hospitality – 1,660 m²

Exhibition – 1,050 m²

Area of circulation – 2,328 m²

Area of storage – 589 m²

- Predicted electricity consumption - kWh/m²

Total about 100MWh per year. Based on GIA of 17,000sq.m, this is 5.9kWh/sq.m per year

- Predicted fossil fuel consumption - kWh/m²

Total (gas) about 180MWh per year. Based on GIA of 17,000sq.m, this is 10.6kWh/sq.m per year

- Predicted renewable energy generation - kWh/m²

None

- Predicted water use - m³/person/year

This is difficult to provide per person as the building occupation is not constant (as would be the case in an office building for example). Our overall annual estimate at present is around 4,000m³.

- % predicted water use to be provided by rainwater or greywater

None

The Club will be undertaking a series of site visits during the construction period for the future users of the site including (but not limited to), players, officials, safety personnel including the Police and Fire service, administration staff, representatives of the broadcast media and written press.

Note: The estimates for energy and water are approximate at this stage and are based on assumptions about the use of the stand (as set out in the water consumption report etc.). The reality could and is very likely to be different - estimating usage patterns is very difficult. These figures should, until actual usage figures can be determined, only be used as a guide.