

Barnet's Eco-Home

18 – 26 October



The Barnet Eco-Home in Berkeley Crescent is a flagship project that demonstrates how existing homes can be converted into a model of energy efficiency and sustainability. The London Borough of Barnet & Barnet Homes working in partnership with Apollo Housing and Energy Solutions have converted this pre 1920's mid terraced house using a range of eco friendly features that help to significantly reduce energy use, CO₂ emissions and the overall environmental impact of the home.

The home will be open to the public for viewing from Saturday 18 to Sunday 26 October

Opening Times are:
10am – 4pm Monday to Friday

Open late until 8pm on Wednesday
10am - 2pm Weekends

31 Berkeley Crescent has undergone a major refurbishment that will significantly improve the home's environmental performance and reduce running costs. But the transformation is not limited to heating and insulation alone.

Our "Whole House Approach" also takes into account water use, recycling, use of sustainable materials and energy efficiency appliances.

Insulation measures

The loft is insulated with 250mm of natural sheep's wool thermal insulation ensuring that heat loss through the roof is kept to an absolute minimum.

The entire ground floor is insulated with 100mm natural sheep's wool thermal insulation.

Sheep's wool insulation is an environmentally friendly alternative to mineral wool or foam based insulation products.

All the external walls in this house are solid so 50mm of thermal wall insulation board were applied in a process known as dry lining.



Heating and hot water

To improve the efficiency of the heating system an A Rated Condensing Boiler with a 90.2% energy efficiency rating (most conventional boilers operate at 65%) has been installed. The system is controlled by an efficient heating controller with advanced programming options that allow weekend and winter/summer settings

Grant information

Grants are available to help householders install energy efficiency measures and if you're over 70 or on means tested benefits you may get the work done for free. Call the Energy Saving Trust on 0800 512 012 for more information

The Solar Water Heating System installed will help reduce energy use for heating hot water. They typically produce 60% of the annual hot water supply.



Water Saving

Flow limiters on all taps and shower head

Rain water collection system

Dual Flush Toilets

Water Metering

Other significant sustainability features:

- Recycled & Sustainable Building Materials
- A Rated Electrical Appliances
- Fixed Low Energy Light Fittings
- A Sun Pipe to give additional natural light
- Sustainable Urban Drainage System
- Secure bicycle storage
- Compost and Womery facilities
- Resident's Energy Saving Handbook

Energy Efficiency Improvements

	Before	After
<i>Very energy efficient-lower running costs</i>		
(92-100) A		
(81-91) B		81
(69-80) C		
(55-68) D		
(39-54) E	54	
(21-38) F		
(1-20) G		
<i>Not energy efficient-higher running costs</i>		

It is estimated that this house will now benefit from a 64% saving in running costs

Carbon Emission Improvements

	Before	After
<i>Very environmentally friendly-lower CO₂ emissions</i>		
(92-100) A		
(81-91) B		78
(69-80) C		
(55-68) D		
(39-54) E	43	
(21-38) F		
(1-20) G		
<i>Not environmentally friendly-higher CO₂ emissions</i>		

The environment will now benefit from a 52% reduction in CO₂ emissions

How to find us:

The Barnet Eco-House can be found at 31 Berkeley Crescent off Longmore Avenue in East Barnet.

Unfortunately there is no wheelchair access.

Berkeley Crescent is a 15 minute walk from New Barnet or Oakleigh Park Rail Stations.

Buses stop at: Longmore Avenue (326 & 384),

East Barnet Road (184,307, 326), York Road (384)

Nearest Tubes are Totteridge and Whetstone (Take the 326 towards Brent Cross) and High Barnet (Take the 384 bus towards Cockfosters)



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Regrettably there is no wheelchair access available.

A virtual tour is available at www.barnet.gov.uk