

## 1 ENERGY SAVING DISPLAY LEARNING TOOL



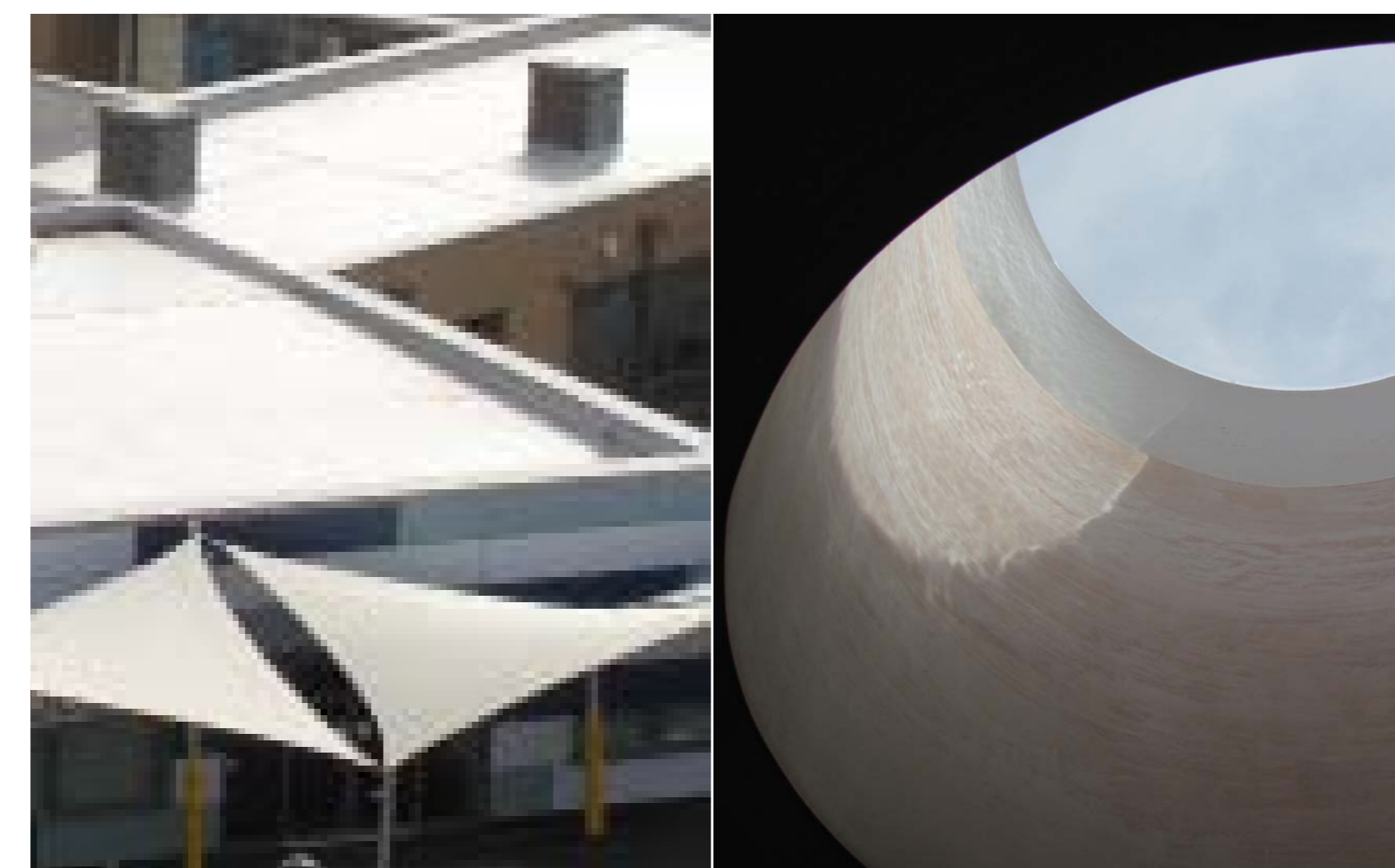
- LCD screen in main reception displaying CO<sub>2</sub> savings and energy use

## 2 PV INSTALLATION



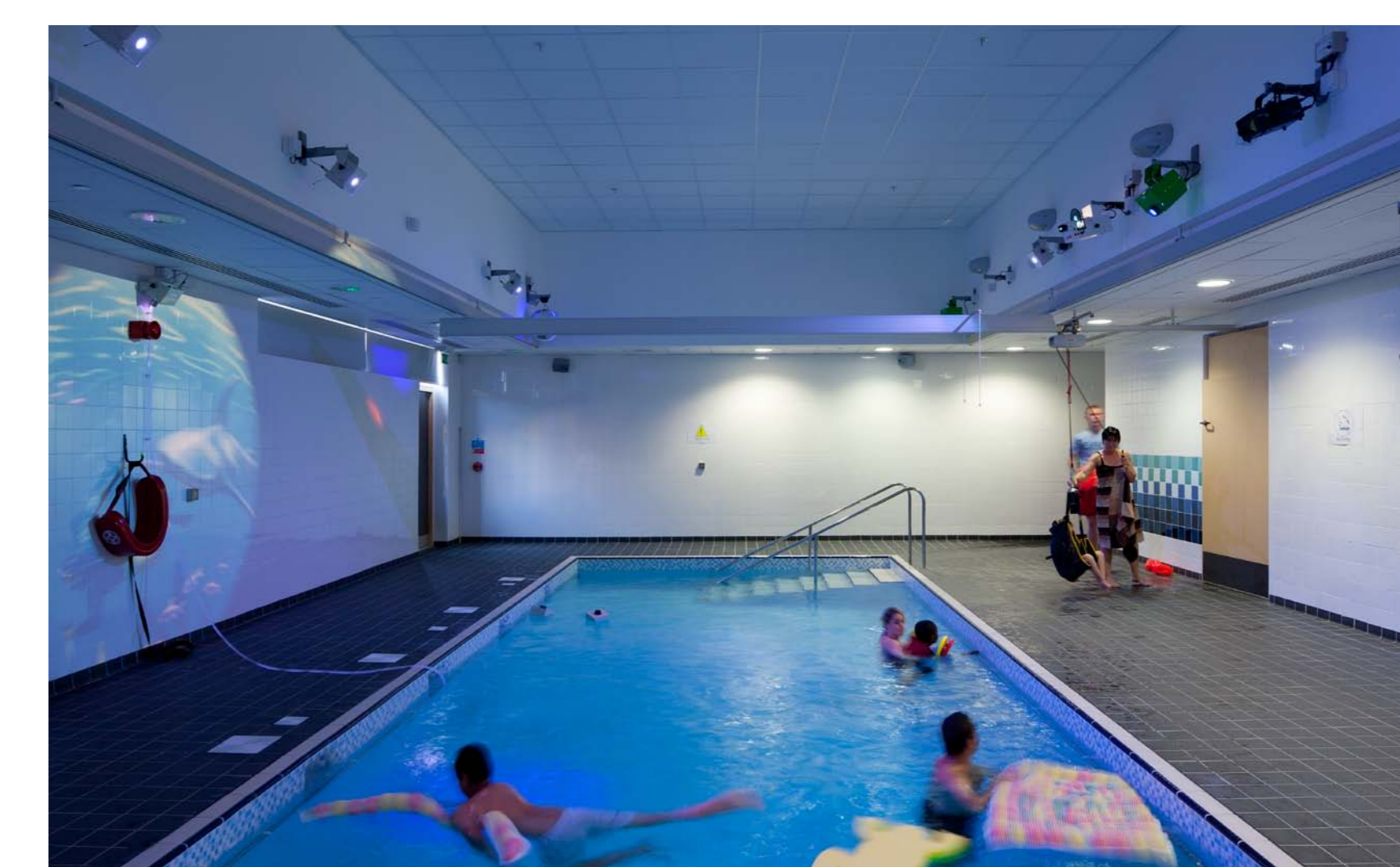
- 200m<sup>2</sup> south facing 30° PV array
- offsetting 12,500kg CO<sub>2</sub>/year

## 3 VENTILATION WIND CATCHERS & ROOFLIGHTS



- natural ventilation and daylighting opportunities to deep plan spaces

## 4 HYDROTHERAPY POOL



- 75% efficient heat recovery ventilation
- pool heated directly via biomass system



“...It was always a pleasure to work with your company. In the general meeting, information was readily shared in a non jargon way which was refreshing and attention to detail regarding the wider ‘Green Issue’ perspective was excellent ....your team’s enthusiasm, humour and expertise was a significant factor in realising the project.”

**Yvonne McCall, Headteacher at Castle Wood School**

## 5 LEARNING SPACES



- daylight >4% to all teaching spaces (saving 2,800kg CO<sub>2</sub>/ yr)
- heat recovery mixed mode ventilation (saving 5,700kg CO<sub>2</sub>/ yr)
- stack effect natural ventilation (saving 3,800kg CO<sub>2</sub>/ yr)

## 6 FACADE ENGINEERING



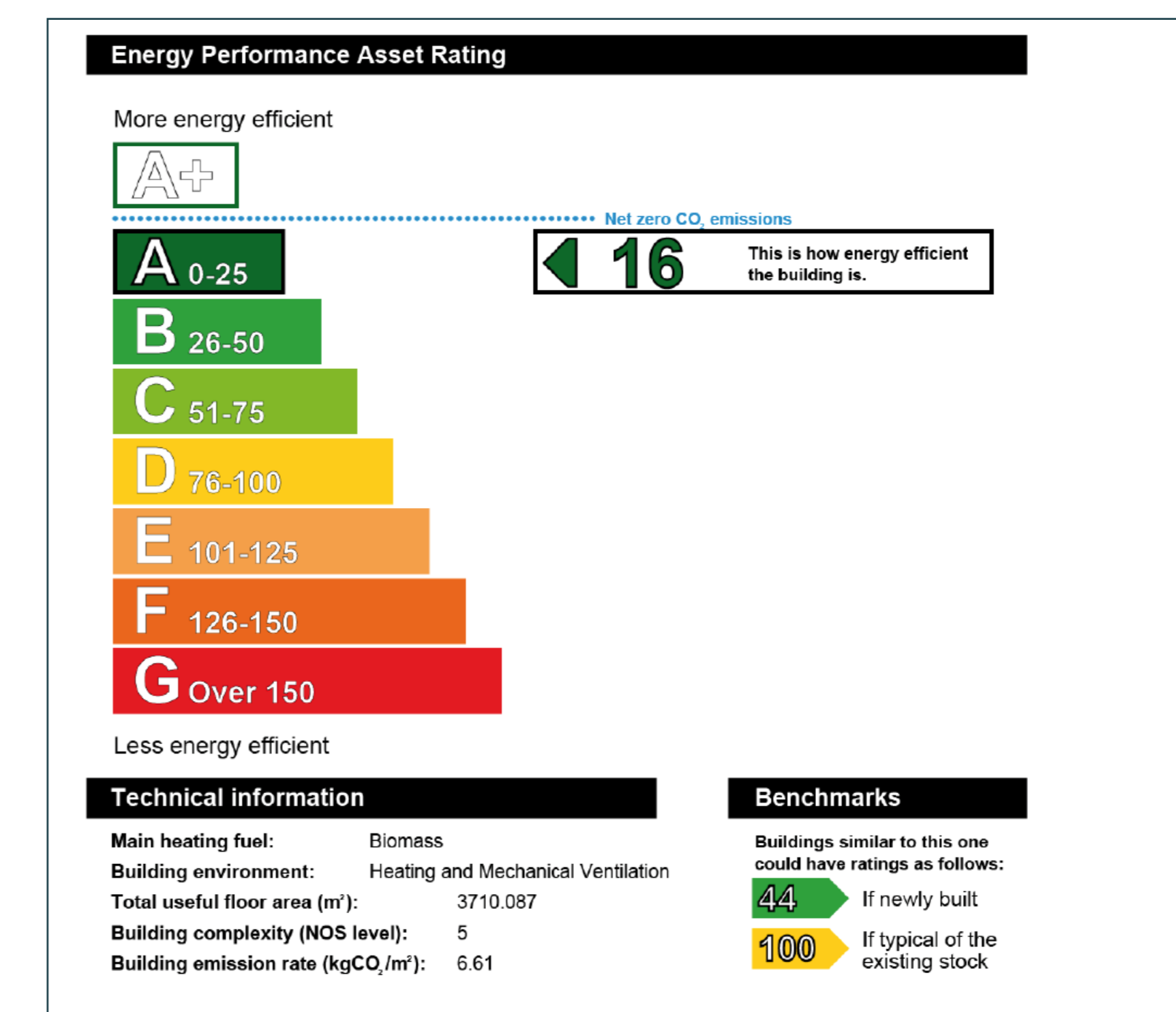
- overhang canopy engineered to provide solar shading
- exemplar natural summertime passive cooling

## 7 BIOMASS HEATING



- 150 kW automated woodchip boiler c/w gas back-up
- stand alone ‘energy centre’ design
- offsetting 51,000 T CO<sub>2</sub>/yr pool water heated directly via biomass system

## 8 ENERGY PERFORMANCE



- EPC rating of 16, A+
- BREEAM ‘Excellent’ rating

CLIENT: COVENTRY CITY COUNCIL  
PROJECT VALUE: £9M  
M&E VALUE: £2M  
SIZE: 3,750m<sup>2</sup>

**Services Consultant** CPW  
**Architects** CPMG Architects  
**Structural Engineer** Collins Hall Green  
**Project Managers** Coventry City Council  
**Quantity Surveyor** Turner & Townsend  
**Main Contractor** Wates Construction  
**Start on Site** February, 09  
**Contract Duration** 58 weeks  
**Procurement** 2 stage tender  
**Cost per m<sup>2</sup>** £2,465/m<sup>2</sup>  
**BREEAM rating** Excellent



Partnering agreement ensuring commercially realistic sustainability throughout.