The Birley campus features a variety of innovative and low-impact designs and technologies to minimise our environmental impact:

- The Robert Angus Smith Energy Centre uses combined Heat and Power (CHP), water storage and boiler systems to provide heating and hot water to campus.
- Boreholes supply fresh water and supply heating and cooling to the campus.
- Rainwater harvesting and collection systems reduce mains water consumption and the risk of flooding.
- Maximum use of natural daylight and extensive use of LED lighting.
- A waste compactor improves the efficiency of our waste management.
- 18 electric vehicle charging points are available for public use.
- The surrounding landscape is designed to support biodiversity and urban ecology, and is open for everyone to visit.
- Around the Birley Campus you will find a **wetland area, wildflower area, healthy herb garden and a community orchard** to attract wildlife, and grow produce for use in the Birley Kitchen.
- 139 secure bicycle parks for staff and students, and 75 cycle stands across the Birley campus available for general use.
- Improved pedestrian and cycle routes from Birley through to Oxford Road.
- Learn more about the Birley Campus by visiting out **Birley Campus Sustainability Trail**

BREEAM Rated

The Birley Academic Building has achieved **BREEAM Excellent rating** (Design) and an Energy performance Rating 'B'.

Birley Student Accommodation has achieved **BREEAM Outstanding rating** (Design) and an Energy Performance Rating 'A'.

Building Information

BREEAM Rating and score	76.99 Excellent (design stage)
Basic Building Cost	£2,574/m2
Services Costs	£549/m2
External Works	£162/m2
Gross floor area	23,500 m2
Total area of site	4.5 Hectares
Function areas and size	General Teaching- 3237 m2 Office Space- 3779 m2 Specialist Space- 4038 m2 Support Space- 3269 m2 Balance Space- 6171 m2
Area of circulation	4,722 m2
Area of storage	708 m2
Area of grounds to be used by community	The whole of the public realm is publically accessible, other than the restricted area between the Energy Centre and the Multi Storey Car Park, and the Student Accommodation courtyards.
Area of buildings to be used by community	5%
Forecast electricity consumption (PART L)	117 kWh/m2/year
Forecast fossil fuel consumption (PART L)	224 kWh/m2/year
Forecast renewable energy generation	None
Forecast water use	0.71 m3/person/year
Forecast water use to be provided by rainwater or greywater	45 %

Social and economically sustainable measures

- A number of areas within the Birley Campus are available for community use. These include a restaurant and coffee bar, flexible foyer space, social learning areas, a multi-use hall, lecture theatres, classrooms and a drama studio.

- A Health Impact Group was formed in order to maximise health benefits. Nursing students, under supervision, undertook a range of activities in the local community, including free health screenings.

- A Birley Campus Health Clinic is available to staff, students and the public, who can access the facility for various treatments at competitive prices. The health clinic will seek to improve the health and wellbeing of local community and residents and ensure the professional development of students at the University.

- Through an employment initiative for residents local to the campus area, Manchester Met have employed an estimated 26.5 FTE jobs at Birley Campus (2014).

- During the development and construction of Birley, local employment targets were exceeded. Sir Robert McAlpine, Manchester Met's construction partner for the Birley Academic Building recruited 42% of the workforce from the Greater Manchester area and 13% from the City of Manchester.

- Investing in local and sustainable transport modes, the University has installed 18 publicly available electric vehicle charging points, invested in a new bus service (141) that operates between Parrs Wood in South Manchester to the Birley Campus and, created high quality routes and facilities for cyclists alongside safe and direct pedestrian routes.

Throughout the Birley Development the University and Sir Robert McAlpine worked in partnership with local communities, provided opportunities for community engagement and supported a number of community projects.

Some of which include:

- Birley Community Dig & Exploring our Past – Archaeological exhibition.
- Health screening for Birley Community.
- Down Syndrome Awareness Day charity football tournament and Zumbathon.
- Community Planting Day to create a functional and enhanced landscape for residents.
- A range of local events and projects including Hulme Street Sprint Race, Hulme Winter Festival, local community groups.
- Involved local communities in events at MMU including The Birley Big Bang and an Intergenerational Christmas Lunch.
- Meet the Neighbours recruitment opportunity events.

Reducing our impacts

A number of measures taken during the construction process were considered vital in limiting and reducing our environmental impact.

Supporting Sustainability

Sir Robert McAlpine (SRM) have worked to support the university's ambition of being a leading sustainable University, seeking to achieve Zero Carbon, Zero Waste, Zero Water and Maximum Biodiversity Campuses. SRM and Manchester Met set sustainability targets, and monitored progress made towards the targets on a monthly basis throughout the duration of the project.

Managing and Monitoring Design

The Project Team supported the Government Construction Strategy, using Building Information Modelling (BIM) to improve construction efficiency.

Supply Chain Partners

Early appointment of partners to develop key building elements that reduce impacts:

- Maximum use of off-site prefabrication of services including plant room skids, underfloor service modules, mechanical and electrical data risers.
- Pre-cast architecturally fair-faced concrete.
- Unitised curtain-walling system with external walkway and solar shading veil.
- Façade made from recycled aggregate.

Evaluating and Improving

Lessons learned from the previous MMU Business School and Student Hub project contributed to the successful delivery of Birley Campus throughout the design and construction stages. Key lesson learned included:

- Extensive off-site prefabrication.
- Design and build contract – No split responsibility.
- End user involvement leading to better understanding of MMU requirements.
- Employing a single defect management system.