

URBED Projects

Inside Greater Manchester

Community Engagement

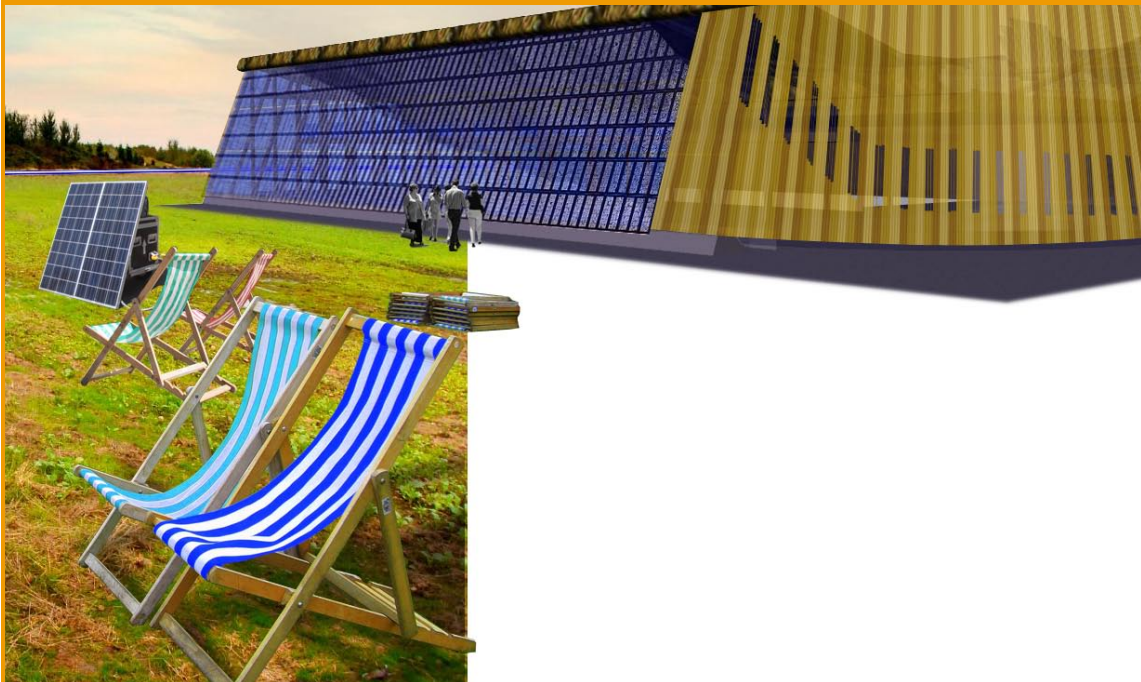


Carbon Co-operative pilot for two streets in Moss Side: Following some initial market research, we are now piloting our unique member-based approach to household retrofit with a view to establishing it as a city-wide social enterprise. We believe this approach is the key to making retrofit easier and cheaper for owner occupiers.

Funders: Manchester Innovation Fund, Manchester City Council

Partners: Manchester City Council, Commission for the New Economy, Adactus Housing Association, Mosscafe Housing Association, Energy Saving Trust

Low Carbon Manufacturing



A solar park concept to attract investment: Following our earlier study into the potential for solar manufacturing, we took things a step further by developing a concept for an integrated manufacturing facility in St Helens. Our concept was supported by market research to identify companies that might be positioning to invest in the EU.

Client: Envirolink North West

Partners: Quantum Strategy & Technology, St Helens Council, Mersey Partnership

Micro-generation Technology



Solar manufacturing study to support CIS solar tower funding

bid: A study of the regional potential to develop solar manufacturing, looking at the full range of photovoltaic technologies and the issues faced in trying to create demand and build a solar sector. It included early engagement with what was then the DTI on the need for a feed-in tariff.

Client: NWDA and Envirolink North West
Partners: CIS, Solar Century

Powerstation Heat Network



Concept plan for heat offtake from Carrington power station: A concept plan and strategy for using waste heat from the proposed gas fired power stations at Carrington, with the potential to supply a corridor extending all the way to Manchester City Centre. It would be one of the largest single carbon reduction measures in Greater Manchester.

Client: AGMA, Manchester City Council

Partners: Trafford Council, Salford Council, Rambøll Denmark

City Centre Network



Manchester Regional Centre energy network: A low carbon energy network for the City Centre. A spatial strategy to take forward the City Council's proposal for a low carbon energy network to supply the City Centre. Using the 'least cost' method of heat planning we have identified clusters of buildings from which a network could develop, as well as devising an innovative mutual ESCo model to bring together building owners.

Client: Manchester City Council
Partners: Arup, Corridor Partnership, AECOM, CHPA

Waste to Energy Network



Waste to energy heat networks: Using landfill gas to heat Bury town centre. A spatial strategy, engineering concept and delivery plan to take forward a heat pipeline linking Pilsworth landfill gas power station and Bury town centre. The project could heat most of the public buildings in the town centre, delivering zero carbon heating and Carbon Reduction Commitment benefits.

Client: Bury Council

Partners: AECOM, the Carbon Trust, CHPA

Heritage Retrofit



Inspiration from the Victorians informs Baths heating strategy:

Advice on low carbon heating options for the prestigious Victoria Baths restoration project, supported by the Sustaining Change project. We are drawing inspiration from the past and present to develop novel heating, ventilation and fabric strategies for this much loved building.

Clients: Victoria Baths Trust, MERCI
Partners: AECOM

Regeneration Retrofit



Low carbon energy strategies for Rochdale, Oldham and Trafford: Developing low carbon energy strategies for regeneration masterplans, combining low carbon infrastructure, new-build performance standards and retrofit fabric improvements. We have worked with HMR Pathfinders, ALMO's and their private sector partners to work up strategies.

Clients: Rochdale, Oldham and Trafford Councils, Oldham and Rochdale HMR, Rochdale Development Agency, BASE, Trafford Housing Trust
Partners: Rambøll Denmark, AECOM

Home Retrofit



A Zero Carbon Victorian Semi?: Putting our money where our mouth is. Our associate urban designer Charlie Baker decided to use his own home to explore how a typical Victorian semi could become zero carbon. Solutions include external insulation, triple glazing, biomass and solar heating. The lessons from the project have informed our retrofit projects. See: superhome.urbed.coop

Partners: Low carbon building product manufacturers

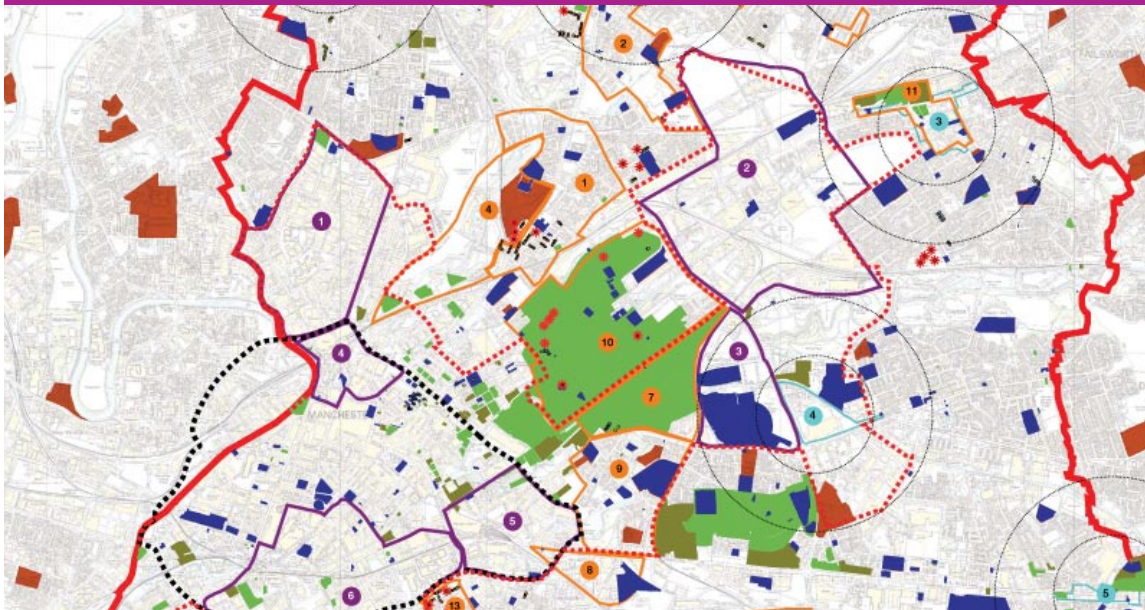
Town Centre Energy Planning



Low carbon infrastructure for Bury, Prestwich and Radcliffe:
Identifying low carbon infrastructure opportunities to supply new and existing buildings in and around district centres in Bury.
Technologies include wind power, gas fired CHP, biomass heating, wastewater treatment heat recovery, minewater geothermal heating, hydroelectric and micro-generation.

Client: Bury Council
Partners: AECOM

District Scale Energy Planning



LDF Core Strategies for Manchester and Bury: Development and testing of innovative LDF Core Strategy energy policies to support investment in low carbon infrastructure. We have also provided support to build capacity within each Council, engaging planners, regeneration teams and building control in order to make energy planning more accessible.

Client: Manchester City Council and Bury Council
Partners: AECOM, CHPA

City Region Scale Energy



City Region scale energy planning strategies: Decentralised and zero carbon energy planning policy framework for Manchester City Region. Development of a planning policy framework and spatial approach to energy planning for the City Region, responding to the challenge of zero carbon development and the PPS1 supplement on Planning and Climate Change. We are taking forward the spatial plan vision with support from AGMA and the ten districts.

Client: AGMA

Partners: Ten districts of Greater Manchester, AECOM, Quantum, Rambøll Denmark

URBED Projects

Across the UK

Housing Retrofit Standards



Moving beyond decent homes: Research and development of a new low carbon standard for social housing in the West Midlands, drawing upon extensive stakeholder engagement, case studies of management best practice and fully costed retrofit specifications tailored to eight different housing ‘archetypes’.

Client: West Midlands social landlord consortium (SHAP)

Partners: HCA, TSA, Government Office West Midlands, Faithfull+Gould

Passive Urban Design Guidance



Nottingham City Centre Urban Design Guide: Futureproofing the urban fabric of Nottingham. Development of innovative urban design guidance for the city centre of Nottingham incorporating a groundbreaking set of guidance on passive and low energy urban design supported by microclimate modeling by Cambridge University.

Client: Nottingham City Council

Partners: Martin Centre (Cambridge University)

Green Infrastructure



Liverpool Knowledge Quarter: A pilot project to demonstrate regional infrastructure priorities. Development of a complete green infrastructure strategy for Liverpool's Knowledge Quarter, drawing upon the latest thinking and best practice in green infrastructure planning, supported by analysis of the functions and benefits by Mersey Forest Partnership.

Client: Mersey Forest Partnership, Liverpool Vision

Partners: Natural Economy North West, University of Liverpool, NHS Trust

Retrofit for the Future



Demonstrating 80% carbon reductions for existing properties:

We are using Retrofit for the Future funding to demonstrate how 80% carbon reductions can be achieved on 12 homes in Rotherham and Wakefield. We are combining comprehensive fabric improvements with improved ventilation, a low energy fit out and renewable energy technologies. Performance will be monitored over the next 2 years.

Funders: Technology Strategy Board

Clients: Bramall Construction, Rotherham 2010, Wakefield District Homes

Low Carbon Economy Strategy



Dearne Valley Eco-vision: Development of a 20 year eco-vision for the low carbon future of the former coalfield Dearne Valley working with Sheffield City Region, Yorkshire Forward and the three local authorities and to put in place the strategic policy framework and to identify priority projects and EU partners.

Client: Sheffield City Region

Partners: Rotherham, Barnsley and Doncaster Councils, Yorkshire Forward, Transform South Yorkshire