Our Building Blocks for a Low Carbon Economy

Whilst the need for carbon reduction is now widely accepted, the pace of change is still nowhere near fast enough to deliver the emissions reductions that will need to be made.

In the UK we have a habit of looking for the latest novelty instead of pushing ahead with the big changes that are needed. And they will need to be big. In fact everyone will need to be engaged – from big business to individual households.

For Manchester the stakes are high. The low carbon economy will be about building a city that is fit for the 21st century. It is about a collective endeavour in which every single decision will contribute.

But the city has done it before, using it's own ingenuity and the latest technology to meet the energy needs of the industrial revolution. So we think Manchester is up to the challenge.

And this is where we come in. Since the launch of our Sustainable Urban Neighbourhood (SUN) inititiative in Hulme in 1996 we have pioneered thinking on how to make cities low carbon.

We have been working across Greater Manchester to make the low carbon economy a reality, providing guidance and support to identify the opportunities, get things moving and give people confidence that change can happen.

What will be your contribution?

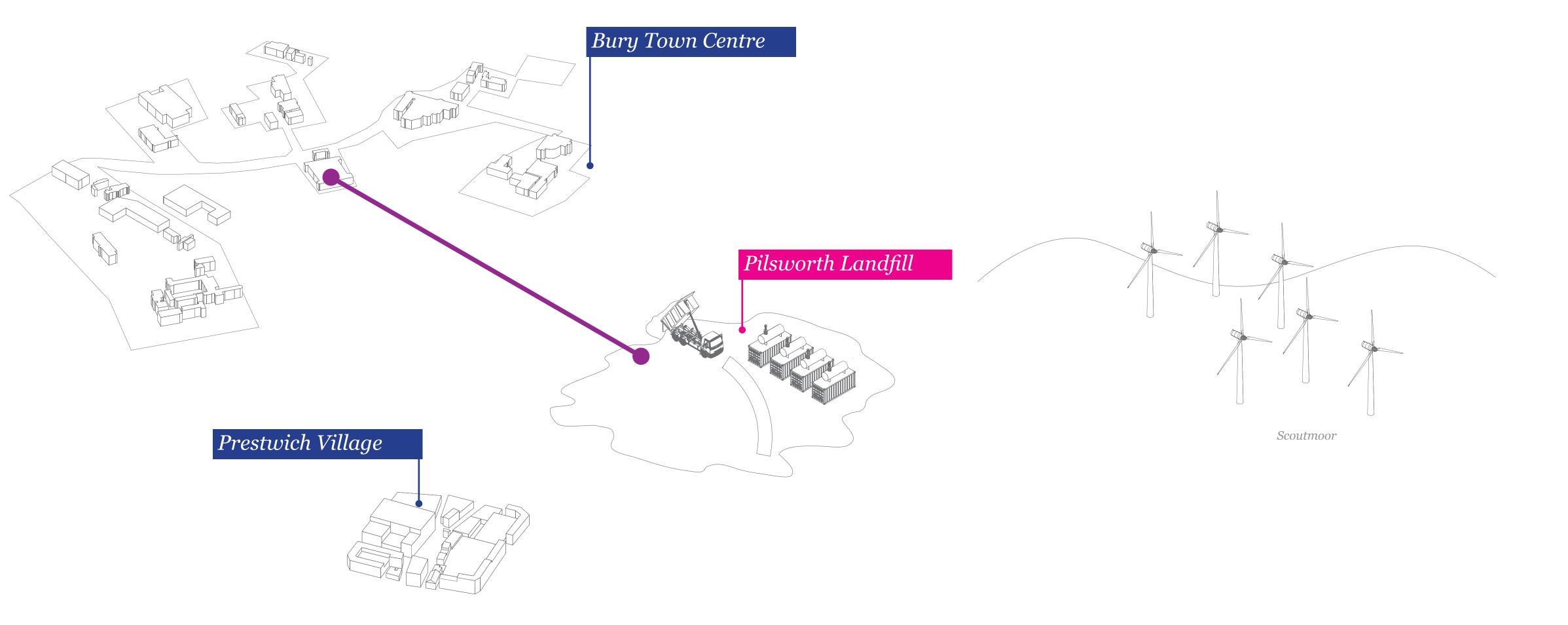
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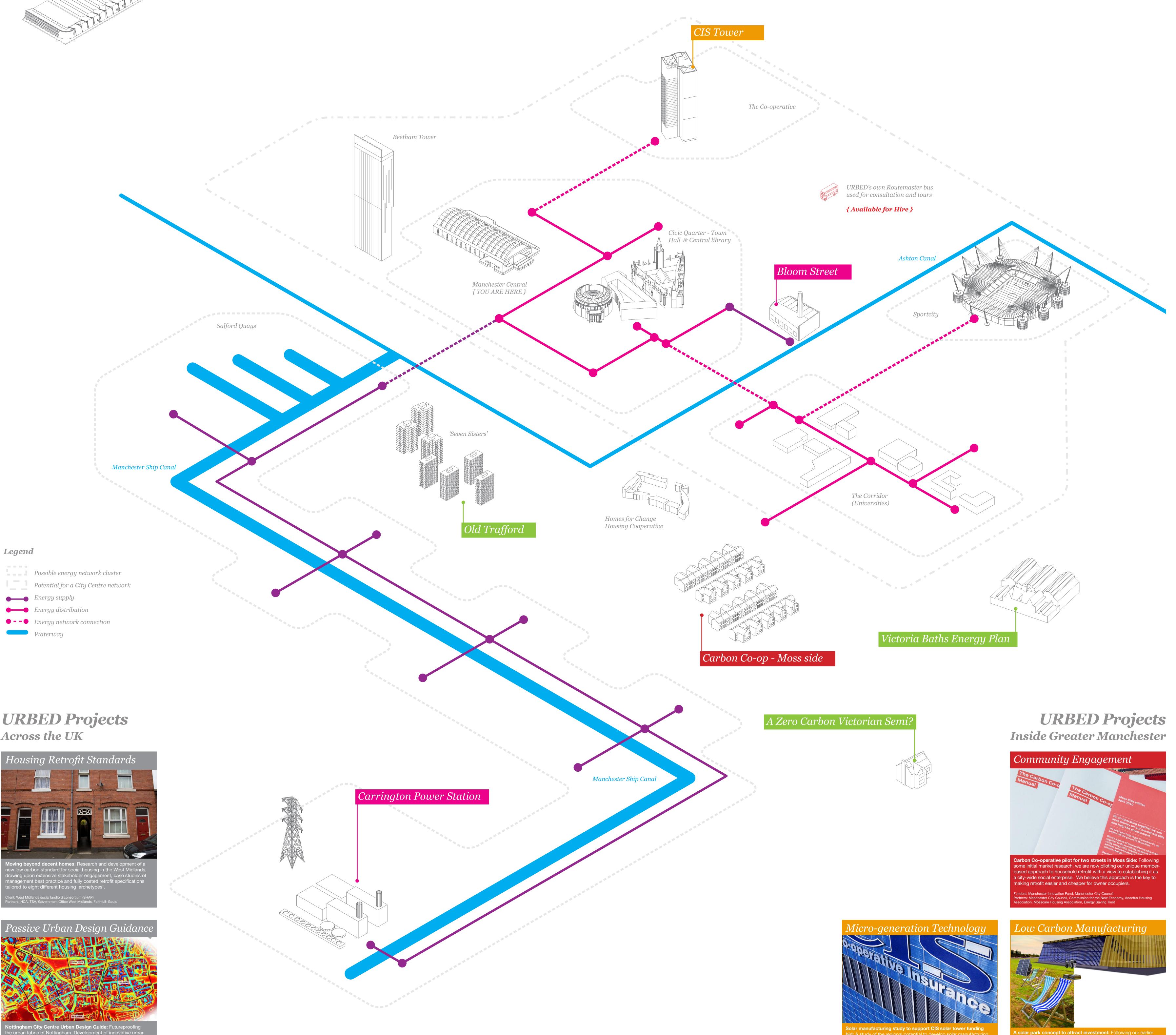
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North West Solar PV Study



URBED Projects Across the UK

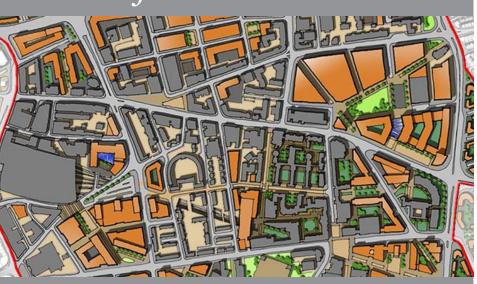




lottingham City Centre Urban Design Guide: Futureproofing he urban fabric of Nottingham. Development of innovative urbar lesign guidance for the city centre of Nottingham incorporating groundbreaking set of guidance on passive and low energy rban design supported by microclimate modeling by Cambridge

client: Nottingham City Council Partners: Martin Centre (Cambridge University

Green Infrastructure



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

it: Mersey Forest Partnership, Liverpool Vision hers: Natural Economy North West, University of Liverpool, NHS Trust

Retrofit for the Future



Waste to Energy Network



tners: AECOM, the Carbon Trust, CHPA

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

piration from the Victorians informs Baths heating strategy

Heritage Retrofit



ow carbon energy strategies for Rochdale, Oldham and

Trafford: Developing low carbon energy strategies for regenerat



bid: A study of the regional potential to develop solar manufacturing udy into the potential for solar manufacturing, we took things a step looking at the full range of photovoltaic technologies and the issues urther by developing a concept for an integrated manufacturing faci 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. St Helens. Our concept was supported by market research to entify companies that might be positioning to invest in the EU.

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



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.



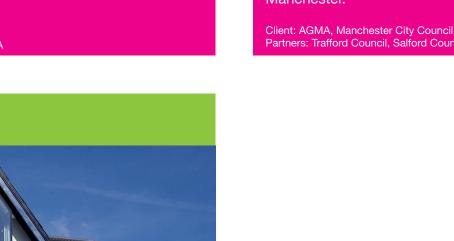


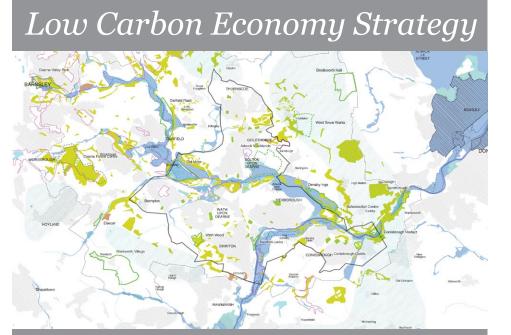


Concept plan for heat offtake from Carrington power station: A concept plan and strategy for using waste heat from the proposed gas fired power stations at Carrington, with the potential to supply a corridor extending all the way to Manchester City Centre. It would be one of the largest single carbon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

ent: AGMA, Manchester City Council tners: Trafford Council, Salford Council, Rambøll Denmark







earne Valley Eco-vision: Development of a 20 year eco-vision fo 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.

lient: Sheffield City Region artners: Rotherham, Barnsley and Doncaster Councils, Yorkshire Forward, Transform South Yorkshi





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.



A Zero Carbon Victorian Semi?: Put outh is. Our associate urban designer Charlie Baker decided to ro carbon. Solutions include external insulation, triple glazing, omass and solar heating. The lessons from the project have formed our retrofit projects. See: superhome.urbed.coop