

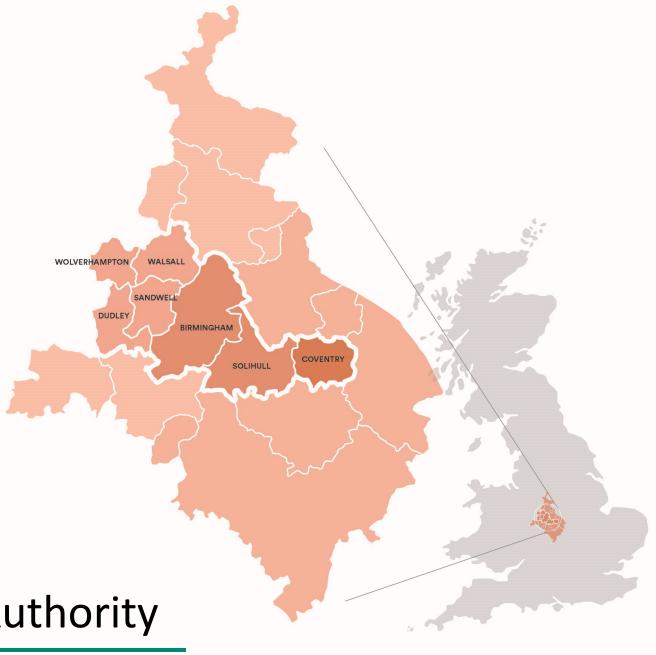
Cheryl Hiles, Director of Energy Capital Claire Spencer, Senior Programme Manager, Inclusive Growth





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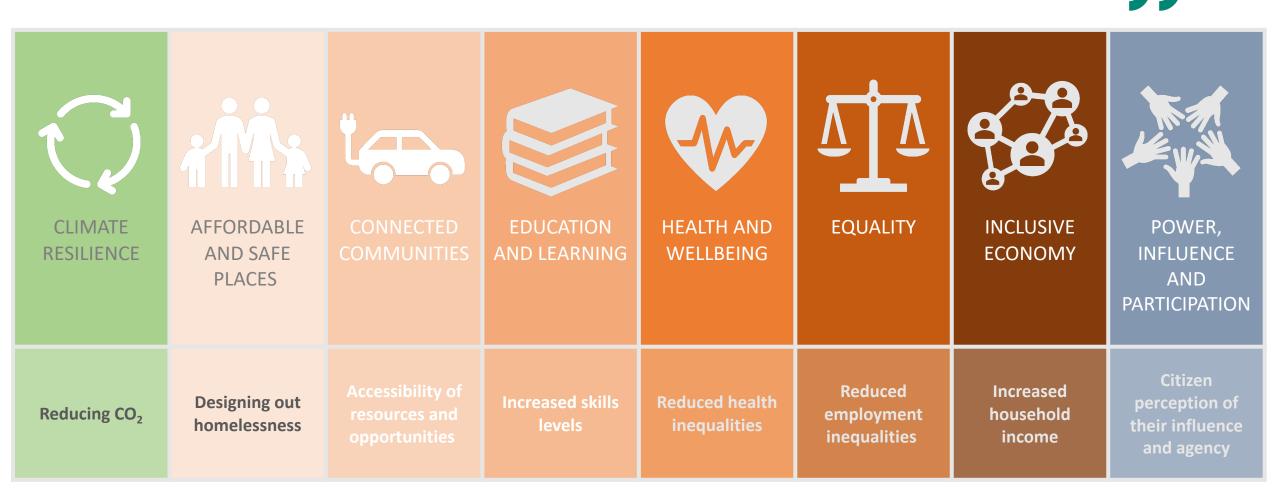
- Combined authorities are set up by groups of local authorities working together on shared issues: we are stronger together.
- It is not obligatory for a combined authority to be led by an elected mayor, but the Government prefers this model as it makes it easier to agree 'deals' for more local powers and investment.
- There are currently ten combined authorities led by elected mayors, including us in the West Midlands.
- The West Midlands Combined Authority (WMCA) was set up in 2016 and elected its first Mayor in 2017.



West Midlands Combined Authority

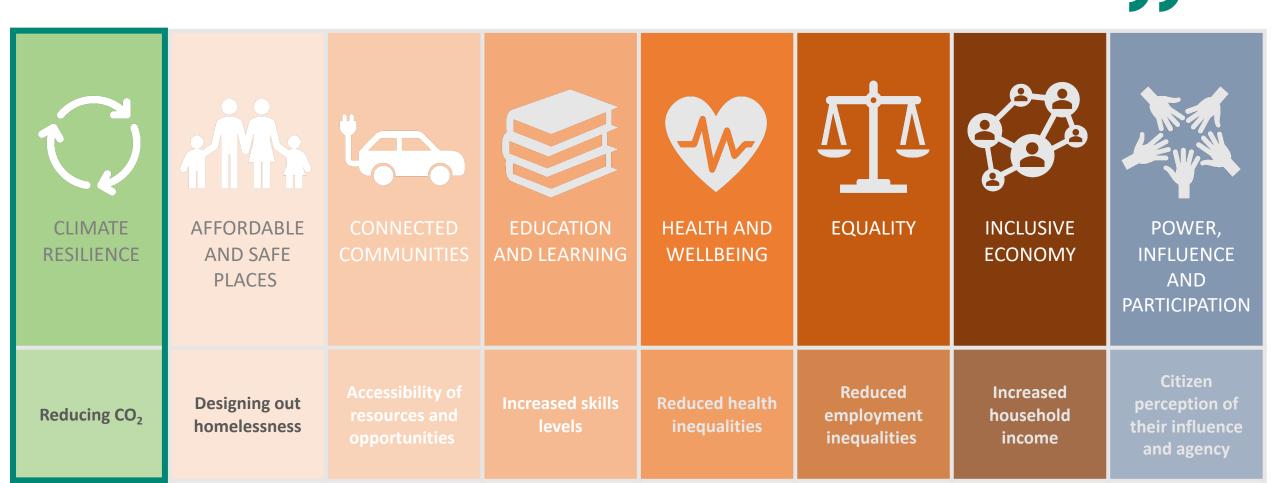


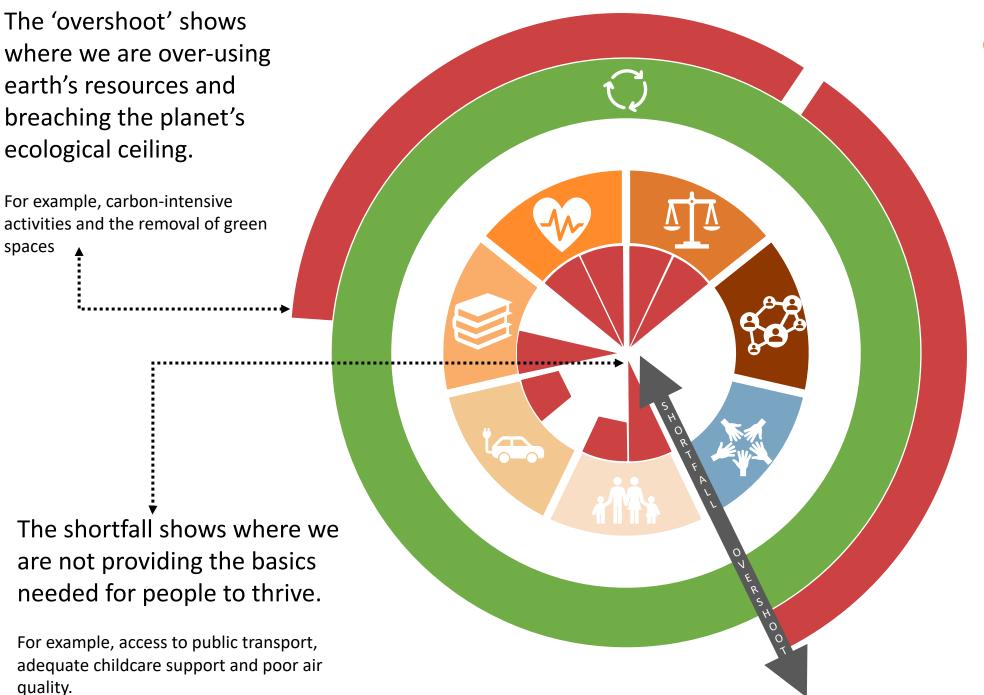
Inclusive growth: a more deliberate and socially purposeful model of economic growth – measured not only by how fast or aggressive it is; but also by how well it is created and shared across the whole population and place, and by the social and environmental outcomes it realises for our people





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The doughnut model is comprised of two boundaries: planetary and human.

A balanced doughnut (where we want to be!) is one where neither boundary is transgressed.

The role of the WMCA in climate change



In some areas we are responsible for delivering and commissioning services, such as the regional transport system and the provision of adult skills



In other areas we convene and guide the work of partners, including developing economic strategy to support regional businesses and unlocking sites for housing and regeneration schemes

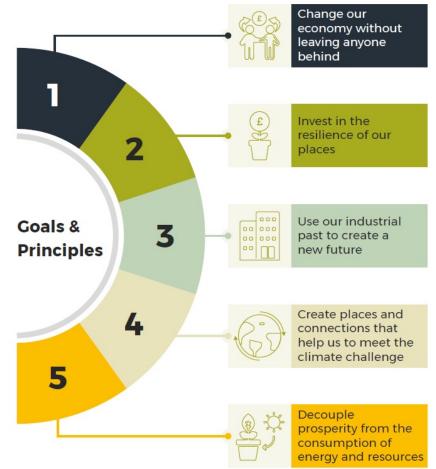


We also play an advocacy role, amplifying the voice of partners in the region to solve shared challenges and secure new resources or powers





Net Zero goals and principles









Four integrated areas

Climate Change
Decarbonising our
economy and
society to net zero
by 2041

Circular Economy

Designing out waste from our economy

& keeping products

& materials at their highest value

Energy Systems
Working to ensure
the West Midlands'
energy
infrastructure
supports net zero

Environment
Protecting, restoring
and enhancing our
green spaces, and
improving water
and air quality

Natural





Third sector collaboration

Net Zero Neighbourhoods Community
Green Grants

Circular Economy Community Hubs

Community Energy Carbon abatement and sequestration

Behaviour change and just transition





WMCA environment and energy strategies





Energy Capital explained

Energy Capital is a public private partnership responsible for the delivery of the Regional Energy Strategy. The executive that supports this partnership is hosted by the WMCA, and has grown by 400% since its inception in 2017.

Energy Capital brings the public and private sectors together to deliver place-based energy solutions, with a focus on establishing a smarter national energy system.

With an initial investment of £500k by the WMCA, we have leveraged over £50m into energy and its supply chain across the region











The Energy Capital Partnership

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The Energy Capital Partnership is a representative group established by the Mayor and composed of the key organisations responsible for strategic regional energy infrastructure planning and delivery. These include the electricity and gas distribution and transmission network operators, Transport for the West Midlands, the key heat network providers, and strategic economic planning bodies for the region.

The Local Enterprise Partnerships, Local Authorities, local universities and inward investment bodies are also represented, reflecting the key role of place-led innovation in delivering the energy transition.

Our aim is to create an attractive environment for energy innovation to thrive in the West Midlands and position the region as a leader in the global transition to net zero.















Infrastructure – pipes and wires

Buildings

Market drivers or incentives



Transport systems

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Homes



Processes











industry







Place based innovation

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Solar Thermal collectors - 279MW

Thermal Storage – 89,600 m3

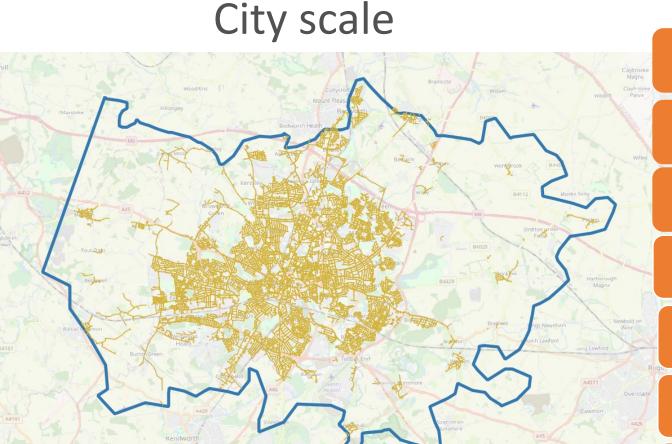
Biomass peak load boilers - 237MW

Domestic retrofit – 13.8GWhy savings

Closed Cycle Gasification – 250GWh/y heat

Roof mount PV - 93MW

25,800 domestic EV chargers



Electrolysis of water – 326 GWh/y H2

Ground Mount PV - 377MWp

250 vehicle EV Charge hub

10,915 ASHP's

VLR Charging(x2) & Bus Charge hub 4.4MW

8 gas network islands

5,126 public EV Chargers

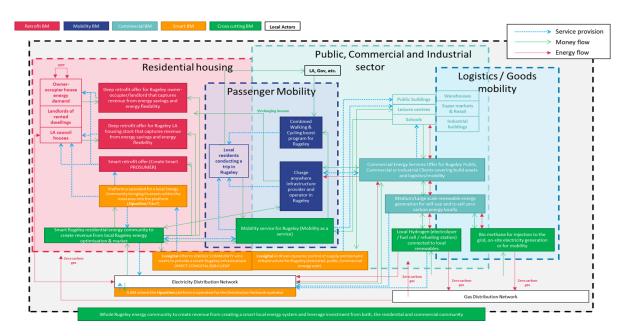


Neighbourhood scale

- Net Zero Neighbourhoods
- Community approach
- Stacking funding



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Challenges we are working on...

A long-term focus required from politically-led institutions

Low hanging fruit has been picked

Lack of democratic 'light' on energy infrastructure Intermittent demand for retrofit skills and services

Weak regulation

Accrual of benefits into the future

Sunk costs

Restrictive criteria around funding







Funding challenges

