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Climate Change
Economics and Policy

An ESRC Research Centre

www.cccep.ac.uk

Delivering Transformational Change: What role for city scale partnerships?

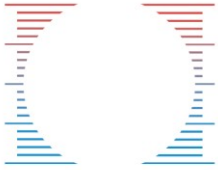
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Can-do Cities

Cities Can Do Energy and Carbon

Cities and towns around the UK have major opportunities to address their energy use and reduce their carbon footprints while cutting their energy bills, creating jobs and creating a wide range of other benefits for their area in the process.

To find out more about the opportunities facing your city or community, and what it is doing to unlock those opportunities, click on the map or select from the drop-down menus below:

Select a city

Select a LEP area

Select a local authority



www.candocities.org



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Ten Critical Issues for City-level Partnerships

1. Create buy-in, legitimacy and a sense of shared ownership
2. Build a positive, can-do culture and celebrate successes
3. Support robust decision-making
4. Promote mainstreaming and policy integration
5. Enable rescaling and multi-level alignment
6. Expand range of policy and governance interventions
7. Explore financing options and business models
8. Strengthen institutional infrastructures for delivery
9. Consider durability and early and later stage transitions
10. Monitor progress, evaluate and learn



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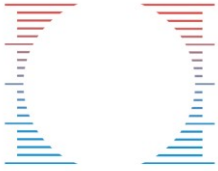


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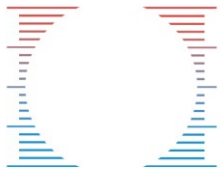
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The Economics of Climate Action in Leeds

We forecast that **Leeds could save £277m a year** by 2030 by exploiting only the cost-effective or profitable options across the city.

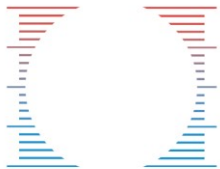
- **Transport costs** within the city could be **reduced by £150 million**
- **Household energy bills** across the city could be **cut by £81 million**
- **Running costs for schools, hospitals, offices** etc. could be **cut by £31 million**
- **Business operating costs** could be **reduced by £14 million**

- Doing this would create **4,200 extra years of employment** within the city.



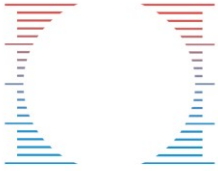
The Most Carbon-Effective Options

Carbon Effectiveness	Total area carbon savings	Measure	Sector
Highly effective	1 to 5 Mt CO ₂	Insulation (<i>cost-effective insulation: cavity, loft and floor</i>)	Domestic
		Heating (<i>boilers, heat pumps, controls</i>)	Domestic
		Cooling in retail buildings	Commercial
Very effective	500 to 1000 kt CO ₂	Boilers and Steam Piping (<i>cost-effective measures</i>)	Industrial
		Demand reduction (<i>minor; heating, lighting and appliances</i>)	Domestic
		Insulation (<i>cost-effective fabric improvements</i>)	Commercial
Effective	10 to 500 kt CO ₂	Appliances (<i>refrigeration, cookers, TVs, washing machines</i>)	Domestic
		Electric vehicles (<i>cars, goods vehicles and buses</i>)	Transport
		Lighting (<i>low energy</i>)	Domestic
		Pumps (<i>cost-effective measures</i>)	Industrial



The Most Cost-Effective Options

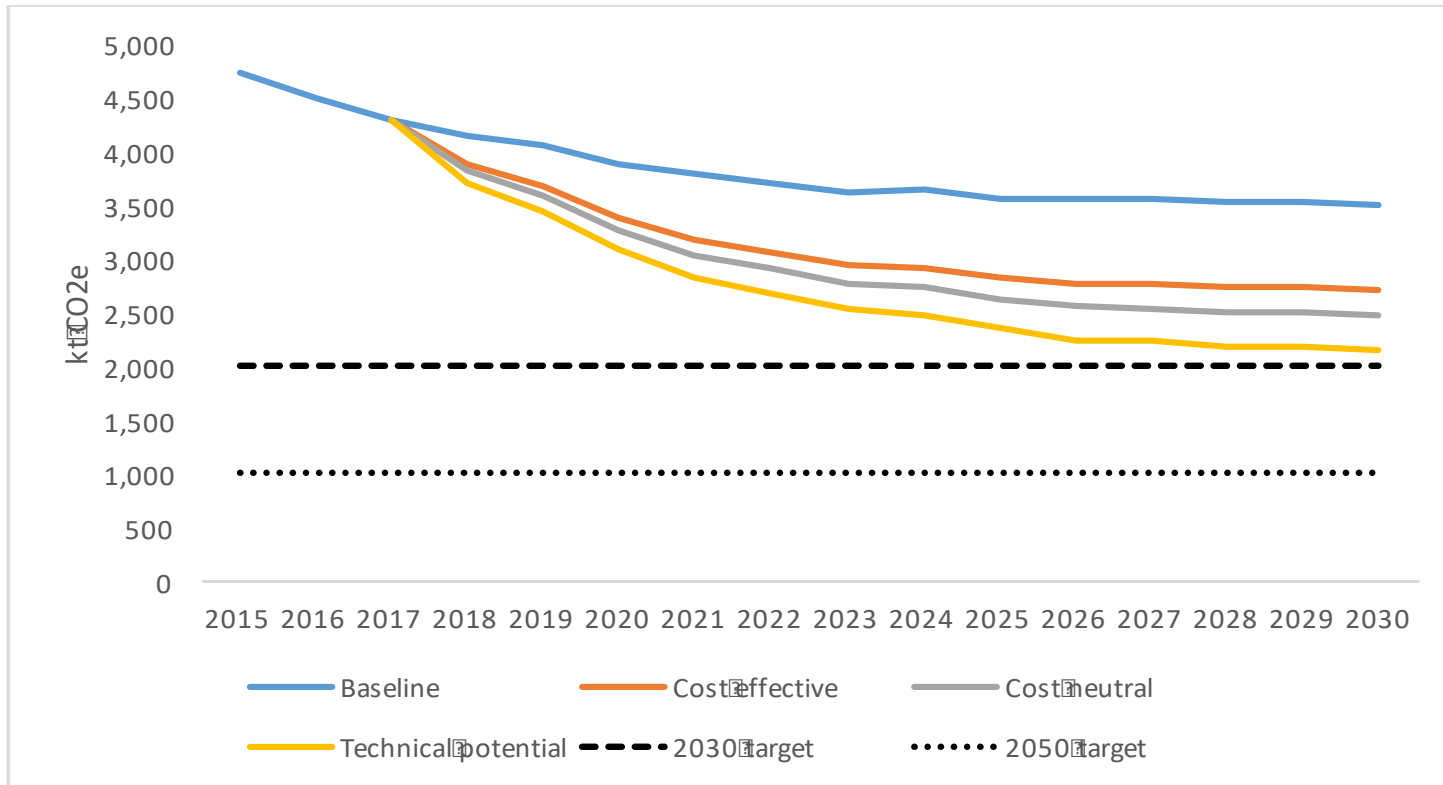
Cost Effectiveness	Total area cost savings	Measure	Sector
Highly effective	<i>£250 to £500 million</i>	Cooling in retail buildings	Commercial
		Insulation (<i>cost-effective insulation: cavity, loft and floor</i>)	Domestic
		Hybrid cars (<i>diesel and petrol</i>)	Transport
		Appliances (<i>refrigeration, cookers, TVs, washing machines</i>)	Domestic
Very effective	<i>£100 to £250 million</i>	Demand reduction (<i>minor; heating, lighting and appliances</i>)	Domestic
		Heating (<i>boilers, heat pumps, controls</i>)	Domestic
		Lighting (<i>low energy</i>)	Domestic
Effective	<i>£25 to £100 million</i>	Pumps (<i>cost-effective measures</i>)	Industrial
		Compressed Air Systems (<i>cost-effective measures</i>)	Industrial
		Fans (<i>cost-effective measures</i>)	Industrial

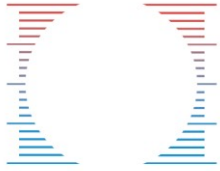


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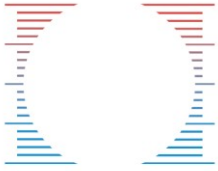
The Transition to Low Carbon Cities





The Different Scenarios

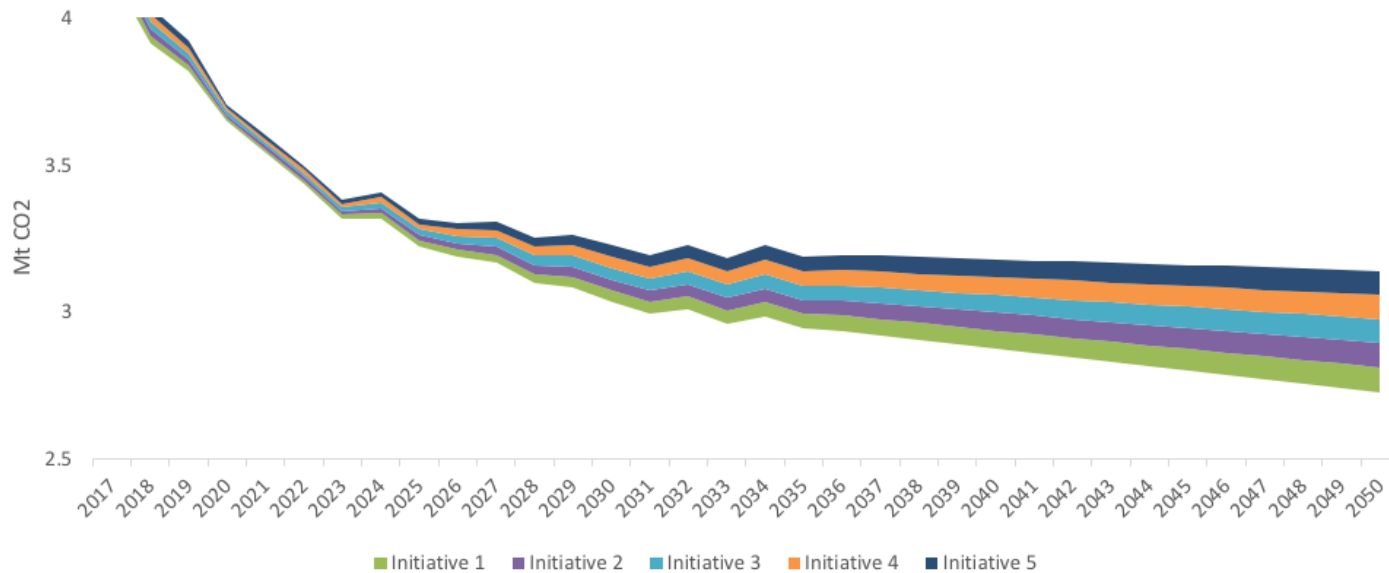
	Cost-Effective	Cost-Neutral	Technical Potential
Investment needs (%GVA pa to 2030)	0.7%	1.8%	4%
Investment needs (total to 2030)	£2.2 billion	£5.8 billion	£12.6 billion
Annual savings (total in 2030)	£277 million	£677 million	£392 million
Annual savings (per person in 2030)	£327	£386	£462
Extra employment (job years to 2030)	4,200	11,400	26,200
Payback period (years)	7.8	10	32
Extra carbon-cut (% in 2030)	22.7	29.5	39.2



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Meeting targets: What, where, by who, funded how?





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The Leeds Climate Commission

Informed by the work of the UK Committee on Climate Change, the Leeds Climate Commission is **an independent voice** in the city, **connected to the democratic process**, but bringing together **key actors** from across the city **to guide and track the transition** towards a low carbon, climate resilient future **to inform policies, stimulate investment and shape the actions** of local stakeholders and decision makers.



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Membership

- 24 Commissioners and 40+ members drawn from across the public, private and third sectors.

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THE CHURCH
OF ENGLAND
Diocese of Leeds

engie
Cofely

Environment
Agency

First
transforming travel

friends
of
the earth

Leeds
CITY COUNCIL

LEEDS
BECKETT
UNIVERSITY

LEEDS
CIVIC
TRUST

Northern
Gas Networks

NODE
LEEDS

OPEN
SOURCE
ARTS

SBB
Social Business Brokers

UNIVERSITY OF LEEDS

VEOLIA

WALKER
MORRIS

WEST YORKSHIRE
COMBINED AUTHORITY

West & North
Yorkshire Chamber
of Commerce

YorkshireWater



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Partnerships for Transformational Change

- The case frequently still needs to be made for urban climate action
- Presentation of this case can help to mainstream climate action and to build public and private support
- The institutions to deliver on commitments are often weak or absent, as are the indicators to track progress
- City-scale partnerships can help to address these issues
- Getting buy-in is much easier when there are clear co-benefits
- These co-benefits are more apparent in the early stages of transition
- **Will partnerships be durable in the later stages of transition?**