Twitter Thread by Leeds Climate Commission

Leeds Climate Commission
@LeedsClimateCom

Tonight we are launching our Net Zero Carbon Roadmap for Leeds, which shows a pathway for how Leeds can get to net-zero emissions by the city's target date of 2030.

Follow the live tweets @LeedsClimateCom #LeedsClimate #PCANcities
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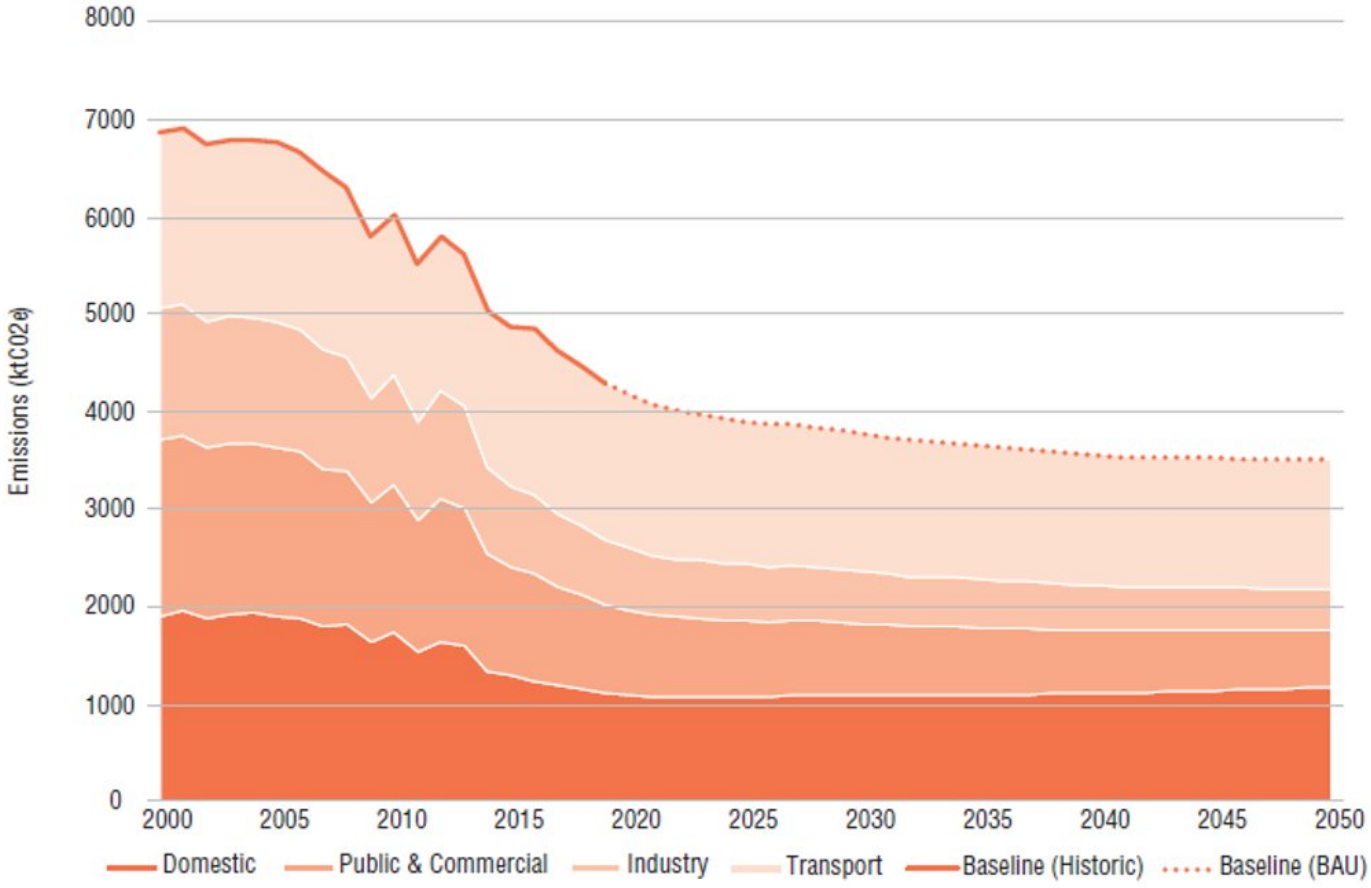
We're looking forward to hearing responses to the roadmap's presentation by members of the Leeds Citizens' Jury, Polly Cook of Leeds City Council, @SimonBowens of Friends of the Earth and Elizabeth Edgington of @BITC

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Leeds' carbon footprint has gone down: between 2000-2019 emissions fell by 40% (largely due to national decarbonisation of the grid).

Our share of the global carbon budget in 2020 is 31m tonnes; at ca. 4m tonnes a year, that's used up by 2029

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During lockdown #1, emissions were ca. 43% lower – overall, in 2020, they were ca 13% lower than normal. Sounds encouraging, but this only delays the point we eat up our carbon budget by 2 months!
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Following science-based targets, Leeds needs to make 70% reductions by 2025 – which means another 25% reduction in emissions in the next 4-5 years.

We need to accelerate significantly!

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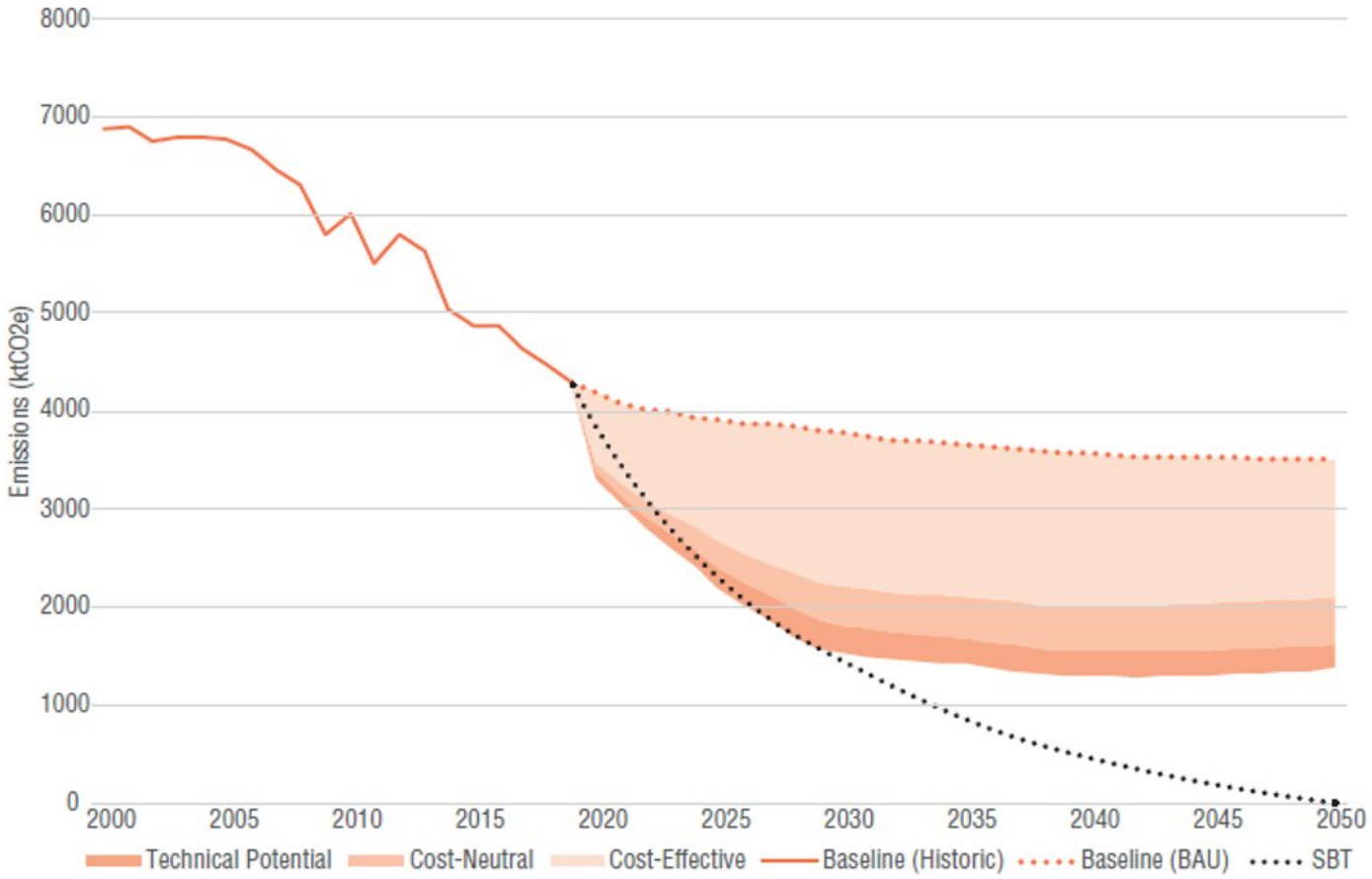
Our report looks at Scope 1 & 2 emissions, but when you take in to account Scope 3 (net carbon from consumption and longer distance travel, inc aviation) the challenge is even greater: flights taken by Leeds residents add ca. 21% to the existing baseline.

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How can we get to net-zero? The roadmap shows a range of cost-effective, cost-neutral and tech viable measures but this still leaves 40% gap…

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Homes and transport dominate the top-ten list of cost-effective options.
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Rank	Measure	Emissions Reduction Potential (ktCO2e)
1	Insulating Domestic Buildings	3,520
2	Petrol Car to Bicycle Journeys	3,076
3	Upgraded Heating controls in Domestic Buildings	3,016
4	Petrol Car to Walk Journeys	2,991
5	Electrical upgrades in Domestic Buildings	2,460
6	Installing heat pumps in Domestic Buildings	2,457
7	Petrol Car to EV Journeys	2,202
8	Petrol Car to Electric Bus Journeys	2,124
9	Diesel Car to Walk Journeys	2,040
10	Fabric improvements in Public Buildings	2,021

Doing the cost-effective options would require £600m investment per year thru 2020s but would cut Leeds' 2030 energy bill by ££651m a year and create getting for 15,000 years of extra employment.
This would close the gap by 41% …
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Cost neutral and technically viable options get more expensive - from £900m a year up to £1.1m a year - but they would help to close the gap up to 60%.... That still leaves 40% gap to close....

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To achieve Leeds' 2030 climate emergency target, we need to look at other innovative or 'stretch' measures.
That's ALOT of tree-planting, among other measures like hydrogen-based heating, electrification of domestic cooking, and more.

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		2025	2030	2035
Annual Emissions Reduction Potential (ktCO2e)	Zero carbon heavy goods transport	68	319	313
	Electrification of industrial heating and cooling	40	38	22
	Electrification of domestic heating	26	133	189
	Electrification of domestic cooking	8	44	63
	Electrification of commercial and public heating	14	42	14
	Hydrogen-based heating (H21)	0	289	275
	2000 Ha Annual Reforestation (2020-29)*	133	343	422

The 'Mind the gap' graph, showing the impact that the various options have on Leeds' carbon footprint.

You can download the roadmap here: https://t.co/koiFvBkwR6

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5400
4400
3400
2400
1400
400
−600
Emissions (KtCO2e)
2015
2020
2025
2030
2035
2040
2045
2050
Industry
Transport
Public & Commercial
Domestic
Land−Use
Baseline (BAU)
TP Scenario
Net−Zero Emissions