

Leicester carbon neutral roadmap

Overview Select Committee –
20th March 2023



Climate change is happening



**2012 & 2019
Flooding**

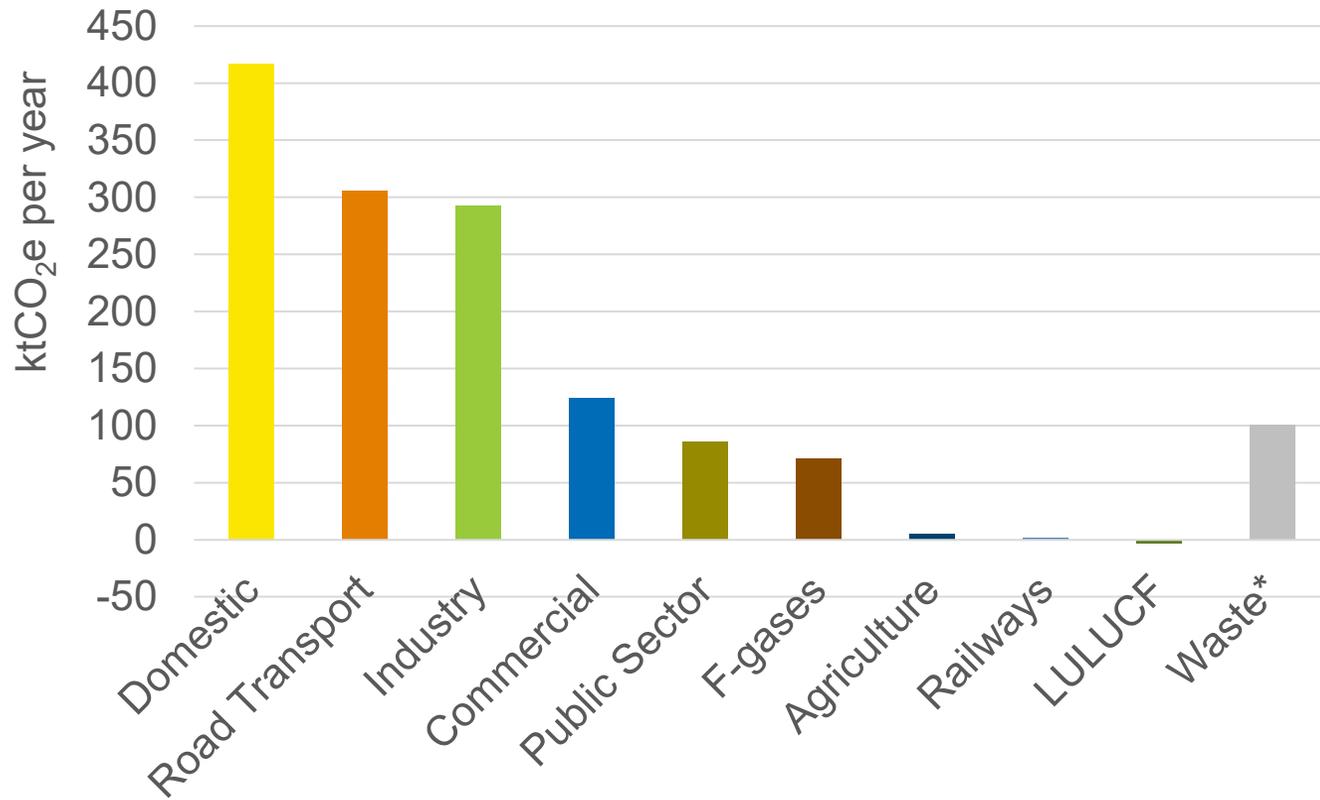


**2022
Heatwave**



Current sources of greenhouse gas (GHG) emissions in Leicester

GHG emissions in Leicester (2019)



* Waste is reported for information but not within the scope of the Roadmap. Note that LULUCF stands for 'Land Use, Land Use Change and Forestry'

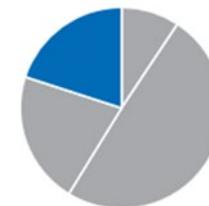
Looking at this data another way, the major priorities are...



ELECTRICITY



HEAT



CARS/VANS



... and everything else

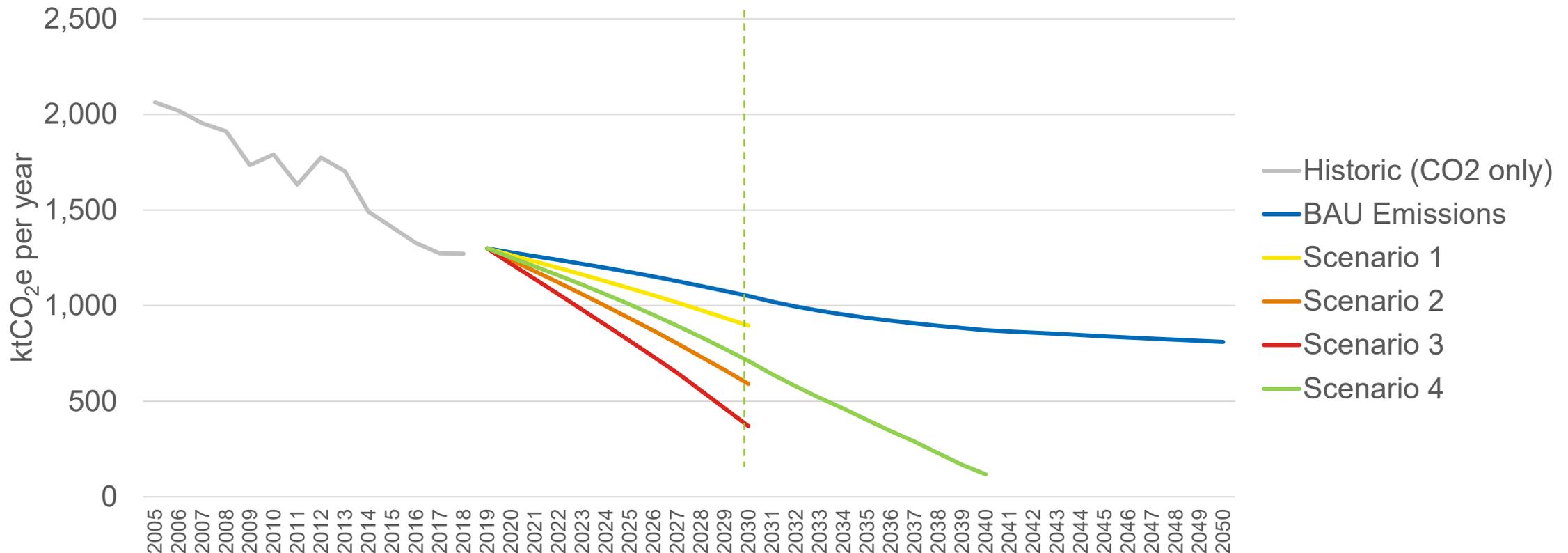
Raising the level of ambition



Four additional scenarios were modelled for Leicester representing higher levels of ambition than the BAU

- Scenario 3, which gets closest to net zero by 2030, does so by prioritising:
 - (1) demand reduction
 - (2) electrification
- These are the core themes of Leicester's strategic pathway to reach carbon neutrality

Comparison of different GHG emission scenarios modelled



In practical terms, Leicester aligning with the most ambitious scenario would involve...



Approx. **12,000**
heat pumps
installed per year
Current total: <1000



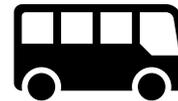
50% of journeys to be
walking or cycling
(or more use of public transport)



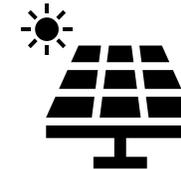
Up to **100%**
electric cars, vans,
and buses
Current total: <1%



Minimum **65,000**
buildings to undergo
energy efficiency
retrofits



3x increase
in use of public transport
(or higher rates of
walking and cycling)



Approx. **6,000**
solar panel
installations each year
Current total: 4,600

... and no further increase in energy demand or GHG emissions from any source

Starting to 'unpack' the Leicester Roadmap....

Housing

Workplaces

Transport

Energy

- What are the specific outcomes needed by 2030?
- What rate and scale of delivery and investment does that imply? How much do we need to scale up?
- What should our approach be? What should we focus on?

Leicester City Council's areas of control and influence

Control Around 7% of emissions	Substantial influence Up to perhaps a third of emissions	Less influence Remaining emissions
<p>Council housing</p> <p>LCC operational estate</p> <p>LCC corporate estate</p> <p>LCC school buildings</p> <p>LCC construction</p> <p>LCC fleet and own EV chargers</p> <p>LCC-led renewables, energy services</p>	<p><u>Some</u> private housing stock – via grants, regulation</p> <p>HA stock – via collaboration on retrofit</p> <p><u>Some</u> SMEs – via grants and support</p> <p>Key partners' emissions</p> <p>New development – particularly strategic sites and LCC owned land</p> <p>Buses – services, infrastructure, electrification</p> <p>Active travel – infrastructure, promotion</p> <p>EVs – via charging infrastructure</p> <p>Traffic management and parking</p> <p>District heating and partner-led renewables</p>	<p>Private housing stock – afford-to-pay</p> <p>Private workplaces – non-engaged businesses/employers</p> <p>Commercial/industrial processes</p> <p>Community facilities – non-council</p> <p>Business-generated traffic – deliveries, haulage, business travel</p> <p>Business fleets decarbonisation</p> <p>Non-commuting, longer journeys – more difficult by bus or active travel</p> <p>Rail services</p>

Next steps

- Widen involvement - share the roadmap report, publicise key messages to public, work with partners through Climate Emergency Partnership and other partnerships
- Use roadmap study to inform next steps
- New action plan – develop first iteration, consult on it, then finalise and adopt – with future annual cycles of development and updating beyond that
- Align other key plans, strategies, decisions and funding bids to strategy developed from roadmap as they are developed
- Finance - how to attract new, scaled up and more diverse sources of investment into carbon reduction in Leicester
- Challenge ourselves to realign current plans and budgets to release more resources

Economic Development, Transport and Climate Emergency Scrutiny Commission

31 August 2022

“Commission members congratulated the Team involved in producing the documents for their work to date, it being noted that the Council’s ambitions were in excess of the suggested targets set by Government.

AGREED: That the update be received and noted, and a further report on progress be submitted in due course.”