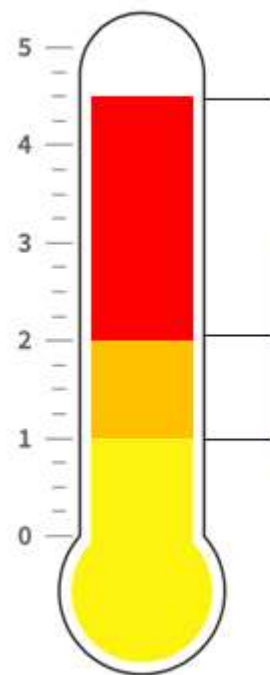


Green Masterplan



Green Masterplan: Carbon Targets

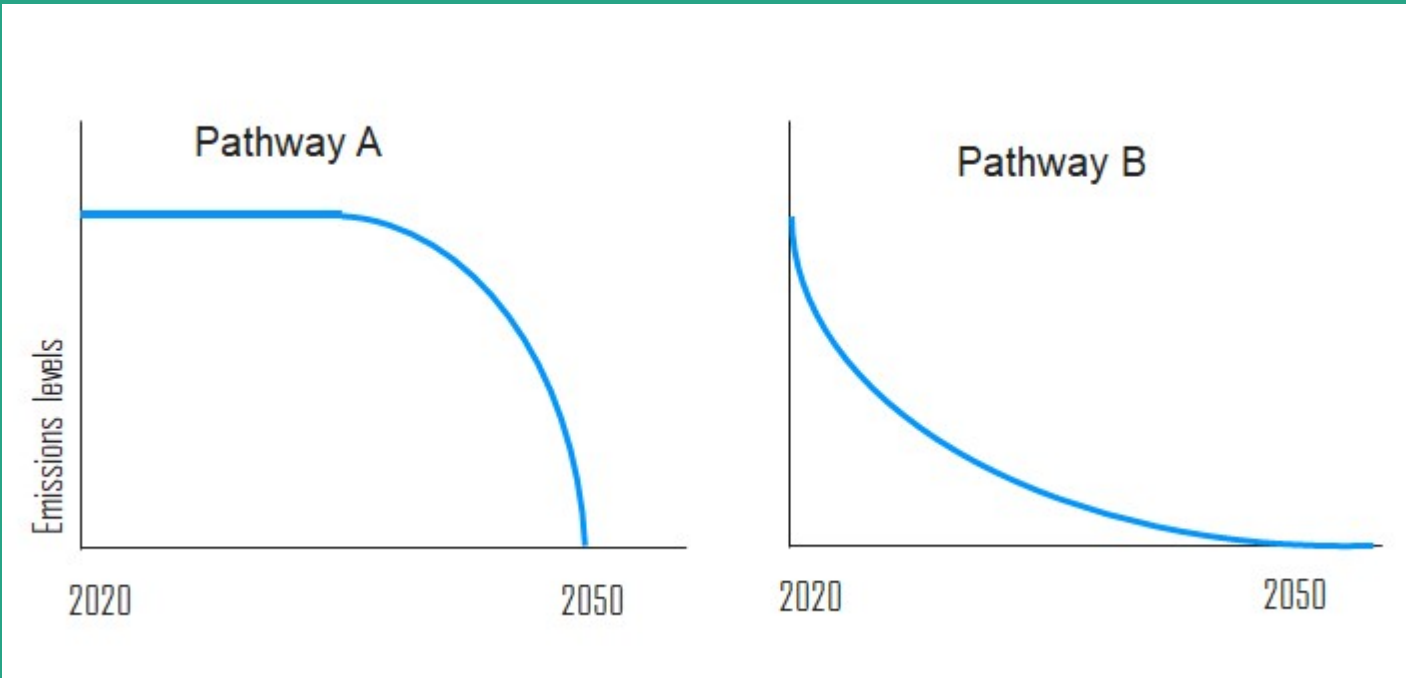
- Part of the national effort to meet the carbon reduction targets agreed at the Paris Climate Conference in 2015
- The Council has adopted the national net zero carbon target of 2050
- Already made good progress on reducing carbon emissions from direct Council activities. A reduction of by 55% by 2019 – from the 1990 baseline



4-5 C the temperature rise we are likely to see if we continue on a **business as usual** path

1.5-2C The maximum temperature rise above pre-industrial levels the IPCC recommends.

1C The temperature rise already created



Green Masterplan: Principles

- 3 Key Principles:
 - Don't waste anything
 - What are the wider implications?
 - Take pride and responsibility
- Backed by an action plan
- New interim Lincolnshire County Council carbon target of 68% reduction by 2025
- New national carbon target of 78% reduction by 2035

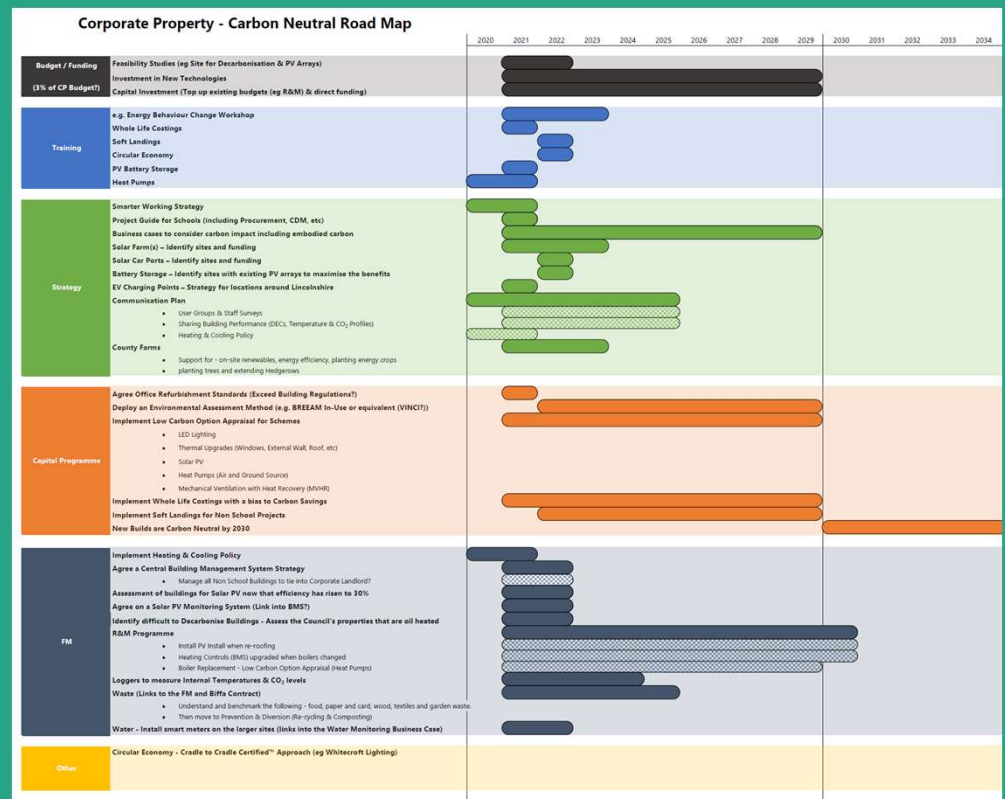


Environmental structure	Carbon Management	Renewable Energy	Water Management	Biodiversity/natural capital	Waste Management	Sustainable Transport	Green Economy	Community Engagement and Awareness	Cross cutting projects
EMS development	Carbon Management Plan	Assessment of buildings for solar panels	Water Resources East	Verges project	Waste carbon footprint	Electric vehicles	Lincolnshire Environment Fund	Climate change awareness for members	Smarter working
Updated Environmental Policy	LED streetlights	Energy Projects (Property)	Water metering	Tree planting – urban challenge tree fund	Food waste collection	Passenger transport review	Environmental skills assessment	Climate Change – Staff Awareness – Training Course	Workforce Strategy, Policy and Structures
Sustainable Procurement	Heat decarbonisation plan	Energy Projects (Developing opportunities)	Water management projects	Tree planting strategy		Transformation of council fleet	Social value in procurement	Lincolnshire Climate Summit	Adults demand management
Creating a sustainability decision making tool	Low carbon Lincoln Castle			Biodiversity net gain				Business engagement activity	SEND high needs transformation
Climate change risk assessment	Improved Data on Scope 3 Carbon Emissions							Setup Circular economy working group	Children in care transformation
	Schools environmental project							Development of the sustainability officers working group	Corporate commissioning review
									Business process redesign



Property – Carbon Neutral Roadmap

- Working in partnership with Property to develop a Carbon Neutral Roadmap
- Smarter Working Strategy
- Project Guide for Schools (including Procurement, CDM, etc.)
- Business cases to consider carbon impact including embodied carbon
- Solar Farm(s) – Identify sites and funding
- Solar Car Ports – Identify sites and funding
- Battery Storage – Identify sites with existing PV arrays to maximise the benefits
- Looking at a similar approach with other directorates - LFRS



New Solar at Orchard House



Green Masterplan: Additional Areas

- Working with other directorates on zero carbon plans – Property and LFRS initially
- Improving our data on carbon and environmental issues – new carbon emission report, improved Scope 3 carbon reporting and more detailed utilities data
- Incorporating sustainability issues into decision making – new Sustainability Impact Assessment Tool
- Crosscutting themes with the Transformation Programme and especially with Smarter Working

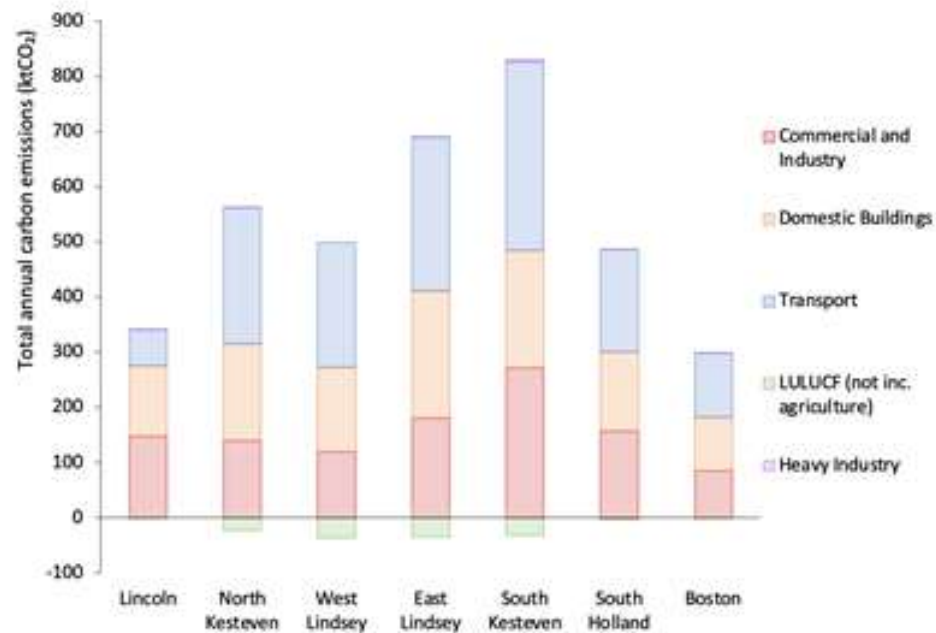
Engagement / Consultation

- Promoting the Green Masterplan within the Council to staff and members
- Developing a training course for staff – looking at what you can do to reduce your carbon emissions at home
- Lincolnshire Climate Summit - aiming for prior to Glasgow COP26 Conference
- Consultation on Green Masterplan

Partnerships

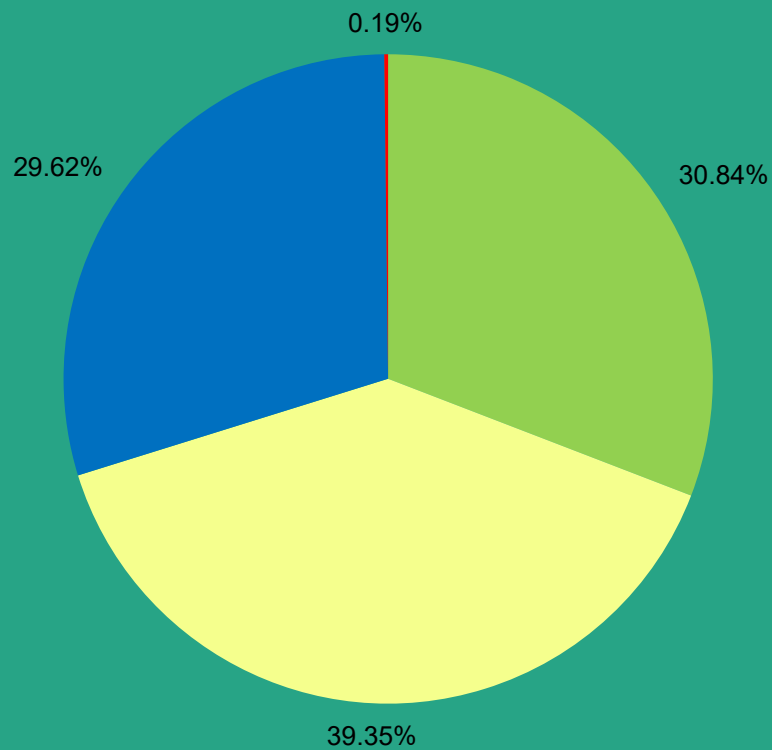
- LCC represents less than 1% of Lincolnshire's carbon emissions – so need to engage with the wider community
- Lincolnshire Carbon Tool – produced by BioRegional for LCC
- Looks at emissions from housing, transport and business

- Looking to establish the Lincolnshire Climate Partnership
- Business engagement



Actual CO₂ emissions, 2018: for all seven Lincolnshire districts in 2018. Emissions are fairly evenly distributed between transport, homes and commercial and industrial buildings. Some districts are acting as carbon sinks through their land.

Carbon Emissions from Business



3.7 million tonnes of carbon from all sectors

- Domestic Buildings
- Transport
- Commercial and Industry
- Heavy Industry

Carbon Emissions from Businesses

- Lincolnshire Climate Partnership idea to engage with businesses on climate change
- Incorporated into the bid to the Communities Renewal Fund
- Support grants for environmental projects
- Sustainable transport funding – trial project on last mile cargo bike system
- Getting businesses EV ready
- Business resilience packs
- Environmental skills – i.e. renovation of homes
- Improving the biodiversity value of business sites

Sustainable Transport

- Transport carbon emissions flat since 1990s
- More efficient engines – but more miles driven – 17% growth in miles driven since 1990 – equivalent to population growth
- More SUVs over last decade – offset efficiency gains
- Van use – 75% growth since 2000

Electric Vehicles

- Electric cars and vans likely to become cost-saving by the late-2020s
- Ban on sale of new petrol and diesel vans and cars from 2030
- Government support for electric vehicle charging infrastructure – workplace and on-road charging point schemes
- Battery technology is progressing rapidly, and typical EV ranges could reach around 350-400 km (220-250 miles) by 2030
- The larger weight, size and payload of vans means that they require larger batteries to offer a comparable range. Therefore, van ranges are likely to remain slightly below those of cars.

Electric Vehicles in Lincolnshire

- Lincolnshire has the highest number of publicly available electric vehicle charging points in the midlands shire counties – 183 in 2020
- Also the lowest take up of electric vehicles (0.56%) compared to the national level of 1.31%
- Western Power has assessed every area it covers for EV charge point suitability

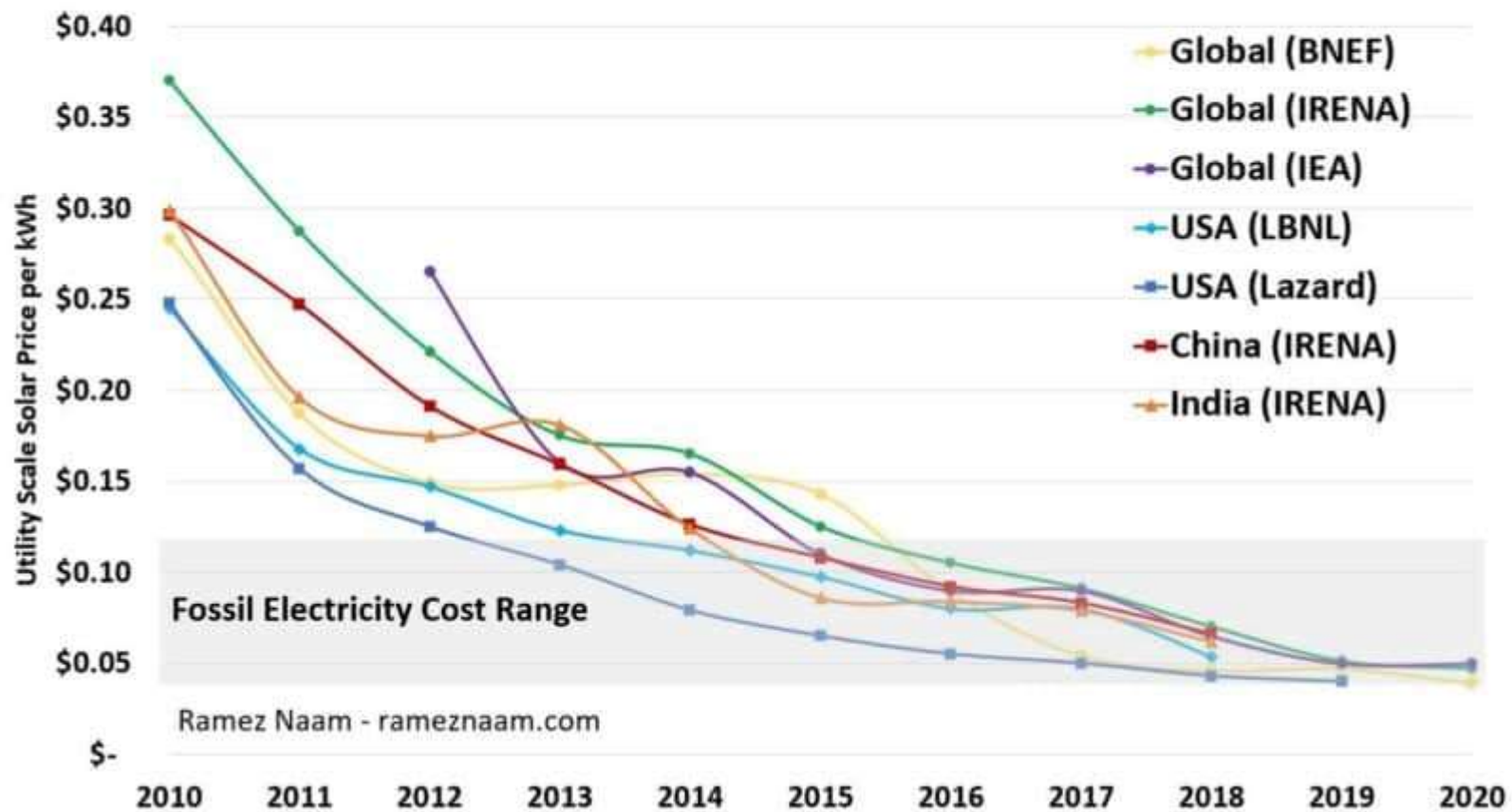
Active Travel

- Schemes to encourage active travel in Lincoln, Grantham, Skegness, Stamford, Louth, Sturton by Stow
- Likely to be future rounds of funding for active travel investments – looking at options to improve cycling and walking infrastructure
- Developing a new Travel Plan for the County Council – will be looking to work in partnership with other businesses and organisations around the county

Energy Options

- Renewable energy has fallen significantly in price
- Solar PV is likely to fall to significantly below the price of grid electricity
- Significant opportunity to install solar on roofs around Lincolnshire
- Large scale solar is coming back into the Government support scheme for renewables from the end of 2021

Solar Costs Dropped by a Factor of 5 Since 2010



MEES Regulations

- Property must achieve an Energy Performance Certificate of E or above when it is rented out or sold – including new leases to existing tenants
- If the EPC is below an E rating the building must be upgraded before it can be leased or sold
- Government plans to upgrade all buildings to EPC C or above by 2035 – likely to be a tightening of MEES requirements to achieve this
- Future Buildings Standard – for new build and major refurbishments

Tree Planting

- Applying to the Local Authorities Treescapes Fund – initial budget for tree planting – for trees in non-woodland settings. 100% grant funding
- Link with NHS Lincolnshire on their Coronavirus Remembrance Trees project
- Joint bids with district councils / parish councils
- “Right Tree in the Right Place” – Opportunity Mapping from Greater Lincolnshire Nature Partnership
- Lincolnshire Tree Week – in tree planting season
- Tree Strategy and Tree Policy
- Research on woodland / forestry economic impact in Lincolnshire and opportunities for growth

Biodiversity Project

- Communities Renewal Fund bid includes a project to look at trial projects to improve the biodiversity value of business premises
- Looking at small scale interventions to improve the biodiversity value of sites
- Many business locations are close to important wildlife corridors
- Biodiversity Net Gain – being introduced in the Environment Bill – likely to lead to a new source of funding for wildlife / habitat creation projects