

CN28

Carbon Neutral Nottingham 2028



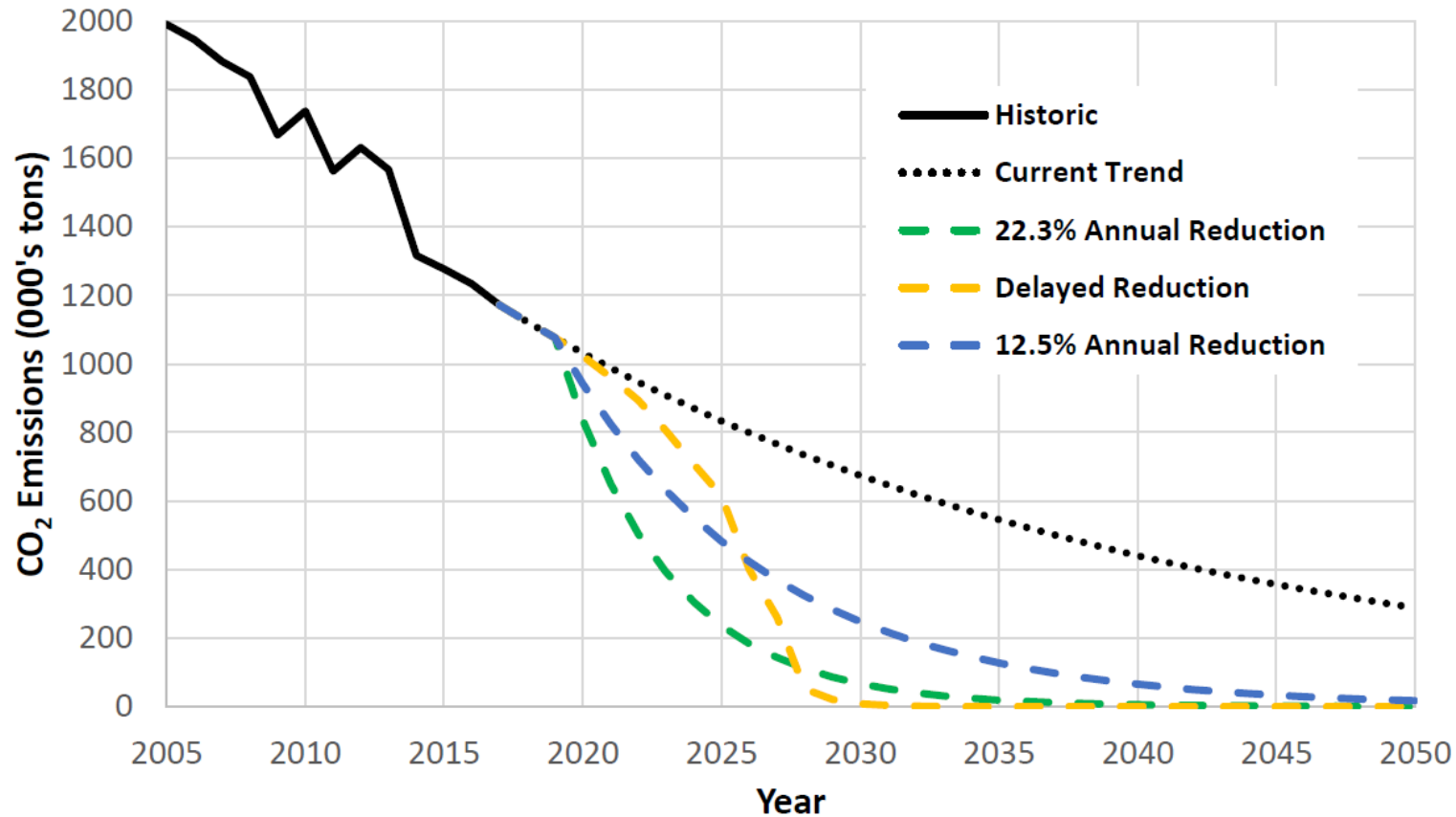
Nottingham
City Council

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Carbon Reduction, Energy and
Sustainability
COP 26 Impacts on Carbon
Neutral Nottingham 2028



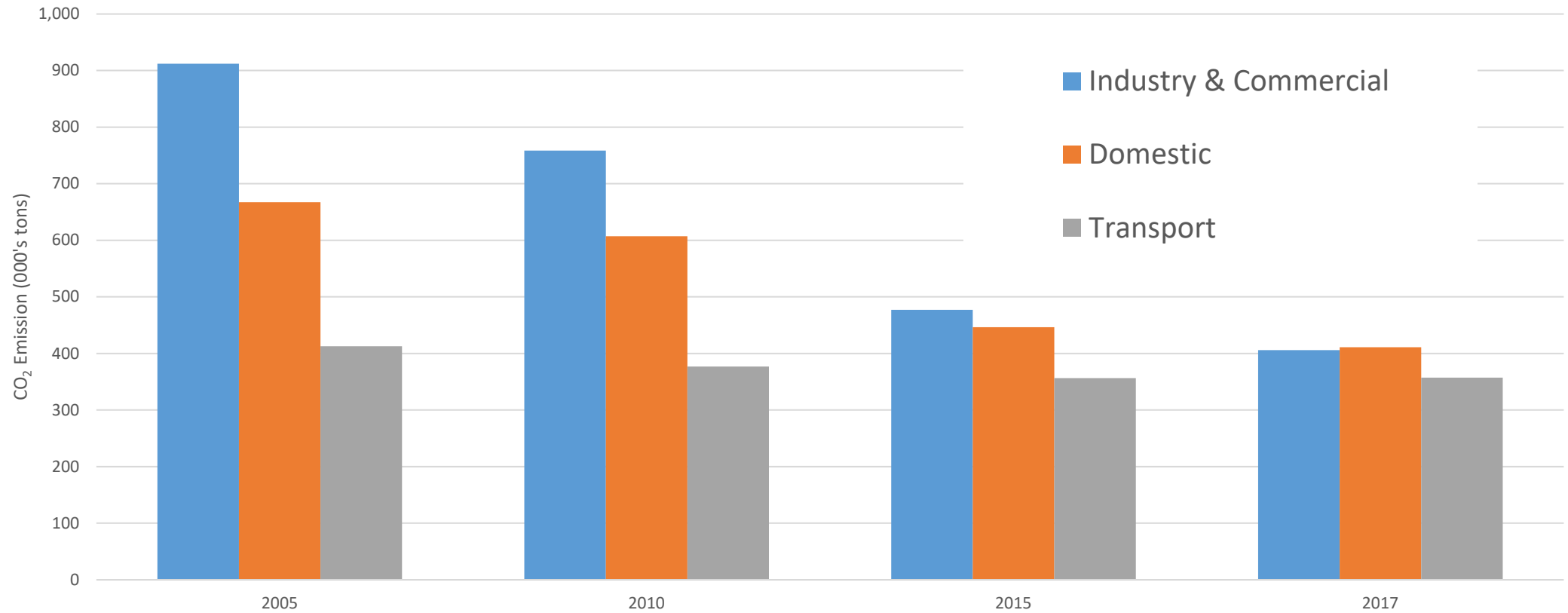
@ClimateBex

Nottingham's CO₂ emissions pathway



Nottingham has reduced city wide CO₂ emissions by over 53% since 2005

Nottingham's Carbon Emissions Breakdown



COP 26 Reflections for UK Cities

1. COP 26 Should Enable Bridging the Gap between National and Local Action
2. Use Integrated Climate Action to Guide City Planning and Priority Setting
3. Comprehensive Sustainable Transport Approach
4. Nature COP!
5. Equity and Inclusion

1. COP 26 Should Enable Bridging the Gap between National and Local Action

- There is a massive missed opportunity in failing to more systematically link climate action by cities to enhanced national climate action plans.
- The symbiosis is obvious: Cities need more ambitious legislation to achieve their science-based targets, and central government need cities to realize their full urban greenhouse gas mitigation potential.
- A more concerted effort is therefore essential to make the case that city action contributes to and enhances national climate targets.
- This requires further research and analysis, specifically to quantify and demonstrate the added contribution of city-led climate action to meeting national climate targets. Furthermore, data that is being collected by cities via CDP.
- Nottingham one of 94 Cities globally to achieve CDP 'A' status

2. Use Integrated Climate Action to Guide City Planning and Priority Setting

- 1,000+ cities that have now signed up for [Cities Race to Zero](#) - committing to reach net-zero by 2050 at the latest.
- Cities cannot afford to address mitigation and adaptation as two independent workstreams and should instead focus their efforts on *integrated climate action that also incorporates public health, equity and other sustainable development objectives*.
- Emphasizing co-benefits is key to get the broad support needed within local authority settings; health, social and economic benefits of emission reductions etc.
- Integrated climate action can deliver cleaner air, greener and safer cities, more equitable mobility, and new jobs. Retrofitting buildings, for example, is one of the impactful climate actions; Nottingham Energiesprong deployment.

3. Comprehensive Sustainable Transport Approach

- COP26 was the turn in the spotlight for electric vehicles, with countries, the private sector, and global institutions committing to zero-emission vehicles.
- Active mobility and public transport, smarter land use, and reducing investments in unnecessary vehicle infrastructure.
- For the sake of our climate and the functioning of our cities, we need a broader view of sustainable mobility at future climate summits.
- Active mobility and public transport in particular require serious attention to make sure cities stay accessible for all and to improve road safety and liveability. The Transport Decarbonization Initiative paper on [financing active mobility](#) and WRI's [safe bike lanes guide](#) are examples of how to bridge the gap to implementation and move from the what to the how.

4. Nature COP!

- Green infrastructure
- Water Resilience
- Nottingham
 - Water Self Supply
 - WELS (Water Efficiency Loan Scheme)!

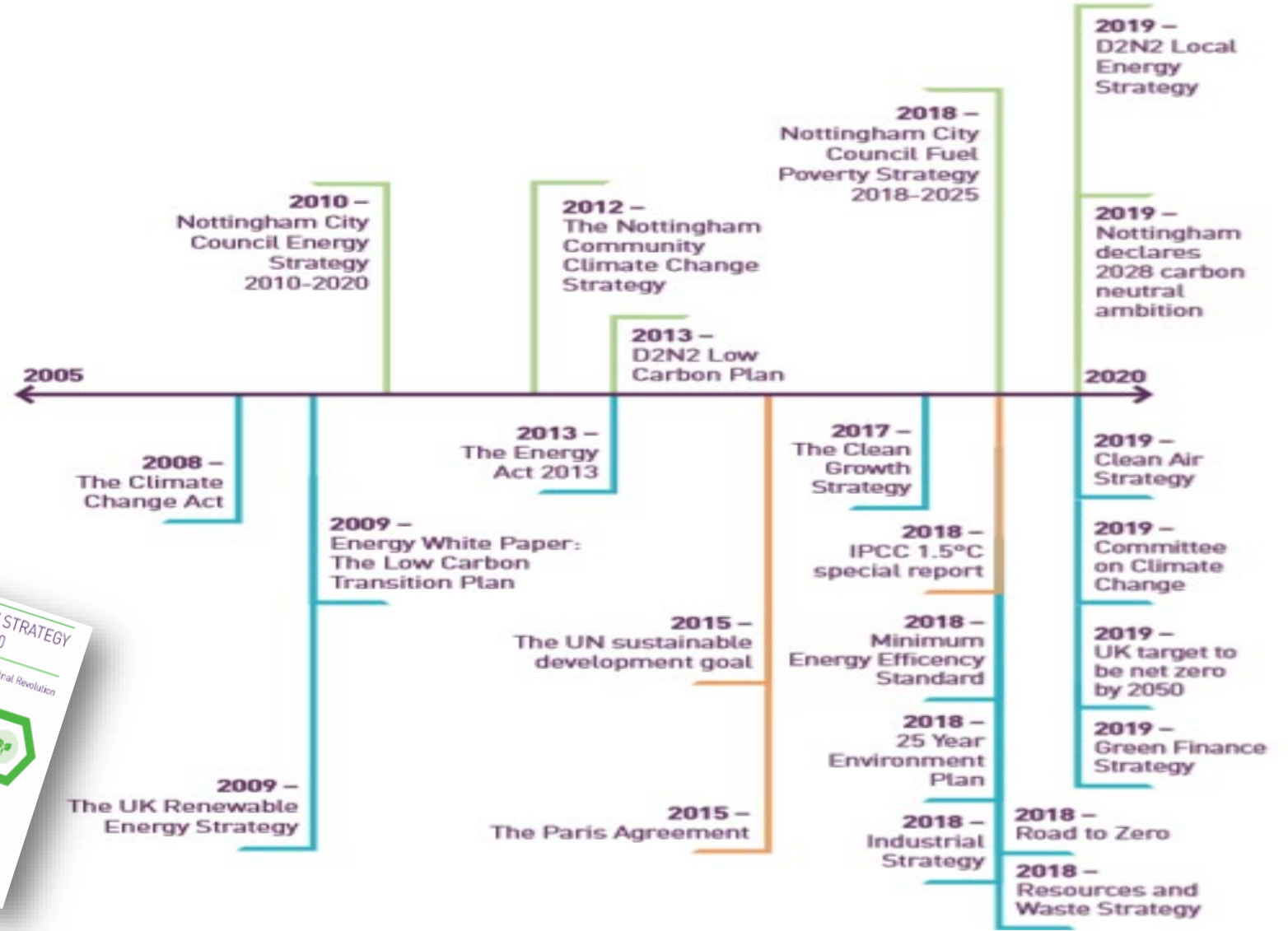
5. Equity and Inclusion

- Access to Services (15 Minute City)
- Clean Air
- Disproportionate impact on most vulnerable residents due to climate change.
- Post Covid opportunity.

Policy and Strategy

KEY

- Regional and local policies
- National policies
- International policies



Carbon Neutral Nottingham 2020-2028 Action Plan



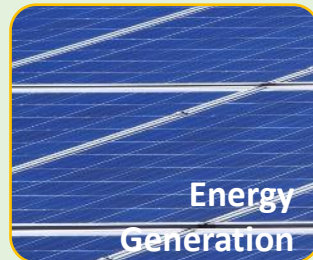
Transport

- Reduce car commuting
- Increase cycling and walking
- Improve public transport
- Encourage clean freight
- Reduce traffic demands
- Develop a low emission and low carbon transport infrastructure
- Shift to ULEVs & facilitate shift by city



The Built Environment

- All buildings to be heated low carbon or renewables
- Enforce energy efficiency standards
- Increase uptake of energy efficiency technologies
- Help reduce buildings energy demands
- Minimise emissions in building construction



Energy Generation

- Expand local low carbon energy sources
- Improve capacity to store local low carbon energy
- Create a stable energy system from a local mix of low carbon sources
- Make Nottingham a test bed for new technologies
- Ensure low carbon energy is affordable for all



Waste & Water

- Reduce the volume of waste generated
- Reuse, reduce and recycle more, use it for energy, cut landfill
- Use regulations to manage waste
- Improve water supply efficiency and treatment to reduce demand
- Improve behaviours to reduce water demand



Consumption

- Increase local, low carbon production
- Reduce consumption of high carbon products
- Reduce food waste
- Encourage low carbon eating
- Reduce events emissions
- Develop sustainable tourism
- Buy and procure sustainably



Carbon Removal

- Offset emissions from hard to reduce sources
- Develop negative emissions technologies
- Improve land management to retain carbon and reduce air pollution



Resilience & Adaptation

- Future policies to include adaptation to climate change
- Reduce flood risk to properties and business
- Ensure all city services are adaptable to climate change
- Understand impacts of extreme weather events now and in the future, with knowledge of our most vulnerable citizens
- Create resilience to climate change in communities and businesses



Ecology & Biodiversity

- Identify better habitat networks
- Increase woodland cover and manage woodlands sustainably
- Install natural features in new developments
- Make the city bee friendly to improve crop production and plant propagation



Action Plan Management

- 273 actions across 10 themes
 - Actions the Council can take directly
 - Actions that can be taken working with city partners
- Implementation Group established
 - theme leads and deputies
 - Key 'advisors' e.g. public health, economic development, finance
- CN28 Board established – chaired by Deputy Leader
- In-depth deliverability analysis completed – prioritisation, actions already underway
- **Focus on actions that could contribute to COVID recovery - job creation, service reinstatement/enhancement, tackling fuel poverty etc, 33% of all actions**
- Quarterly reporting - ClimateView
- Communications & Engagement Plan
- Annual Review (June 2021)



The story so far....

- 25% of the energy demand of the City is from renewables within the City boundary
- 30% of Council fleet is now ULEV, world's first e-RCVs in use
- 130 public EV charging points
- 59m journeys on bus and light rail (19/20)
- 32km tram network, 18.7m passenger journeys, 3rd highest outside London
- 200 E-Scooters
- 60 commercial scale solar PV arrays owned & operated by NCC
- Council housing 'retrofit' programme, over 4,000 now with solar panels
- £7.5m BEIS grant for training in Green Skills
- Traffic calming and road closure schemes in place to encourage more walking and cycling
- ULEV Taxis - 46% Hackney, 69% private hire
- Over 8,500 new trees planted this year already (50,000 by 2023)



Some Challenges...

- **Funding & Resourcing**

- Pressure to deliver other key Council services
- External – private sector, grants etc
- Staff numbers & skills

- **COVID**

- Short term impact
- Long term effect on transport choices
- Increase in working from home

- **Attitudes and behaviours**

- Internal and external
- Culture shift
- Public expectation

- **Government policies**

- Impact of new government directions and policies e.g. Environment Bill, Planning, Energy, Transport – roads, HS2, electrification of Midland Mainline



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Thank you