Climate Action

Councils & Beyond

Ciara Hanson CMLI
Brick By Brick

Public Practice / Climate Response Working Group

Recruitment starts again in April for Oct ‘21 Cohort
https://www.publicpractice.org.uk/

Join our LinkedIn Group!
https://www.linkedin.com/groups/8902130/

Accomplishments of officers in PP / CRWG networks….

Officers developing Climate Action Plans even in absence of political declarations

Many officers actively delivering climate / carbon strategies within local authorities

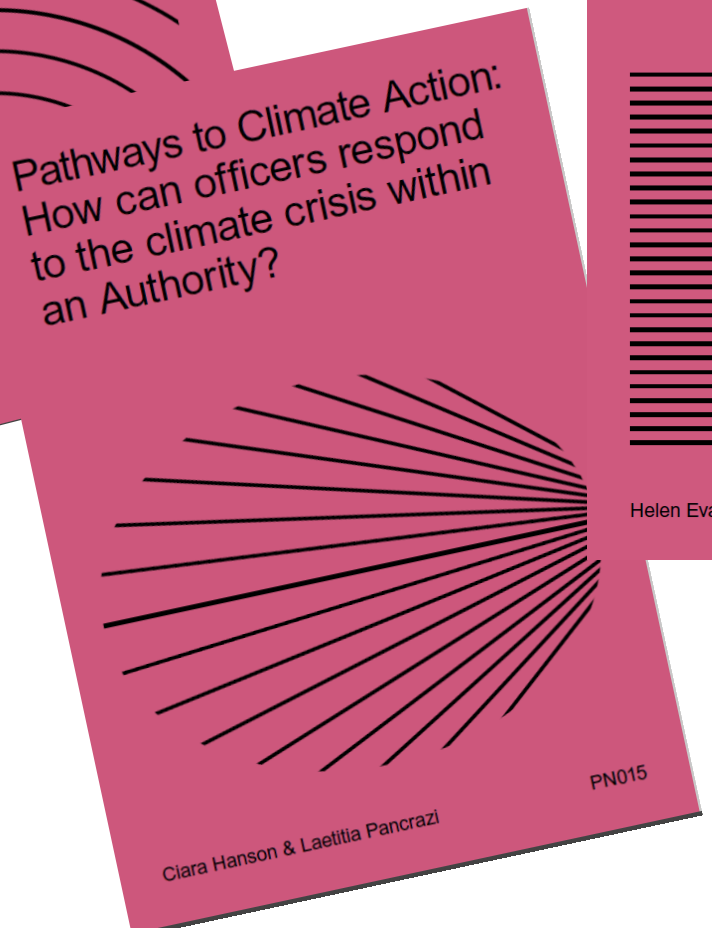
Local authority officers influencing professional and industry action plans

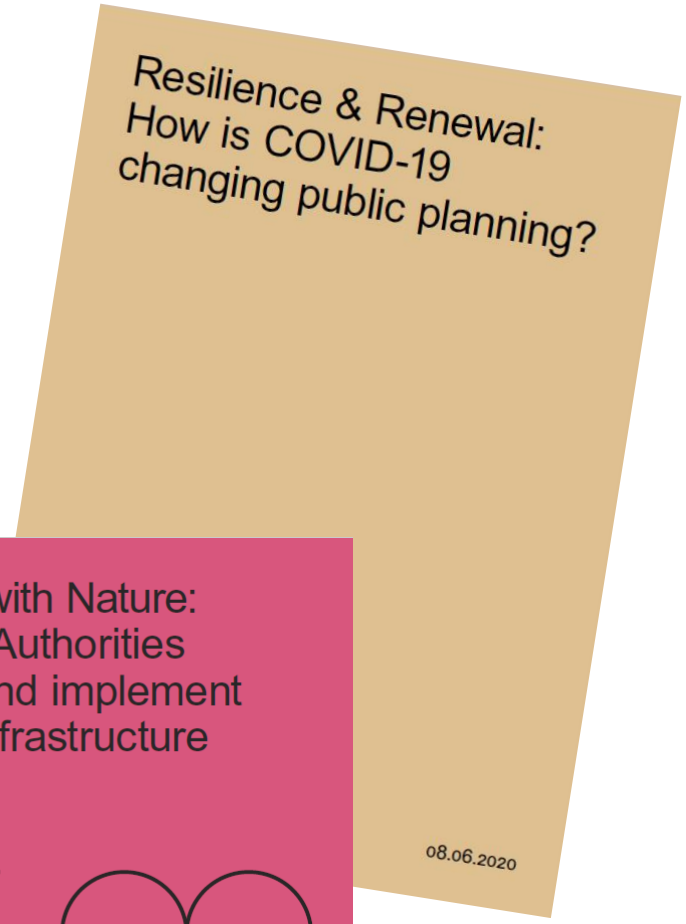
Knowledge share and working groups bridging across local authority boundaries

Design Quality training – building awareness of environmental and landscape

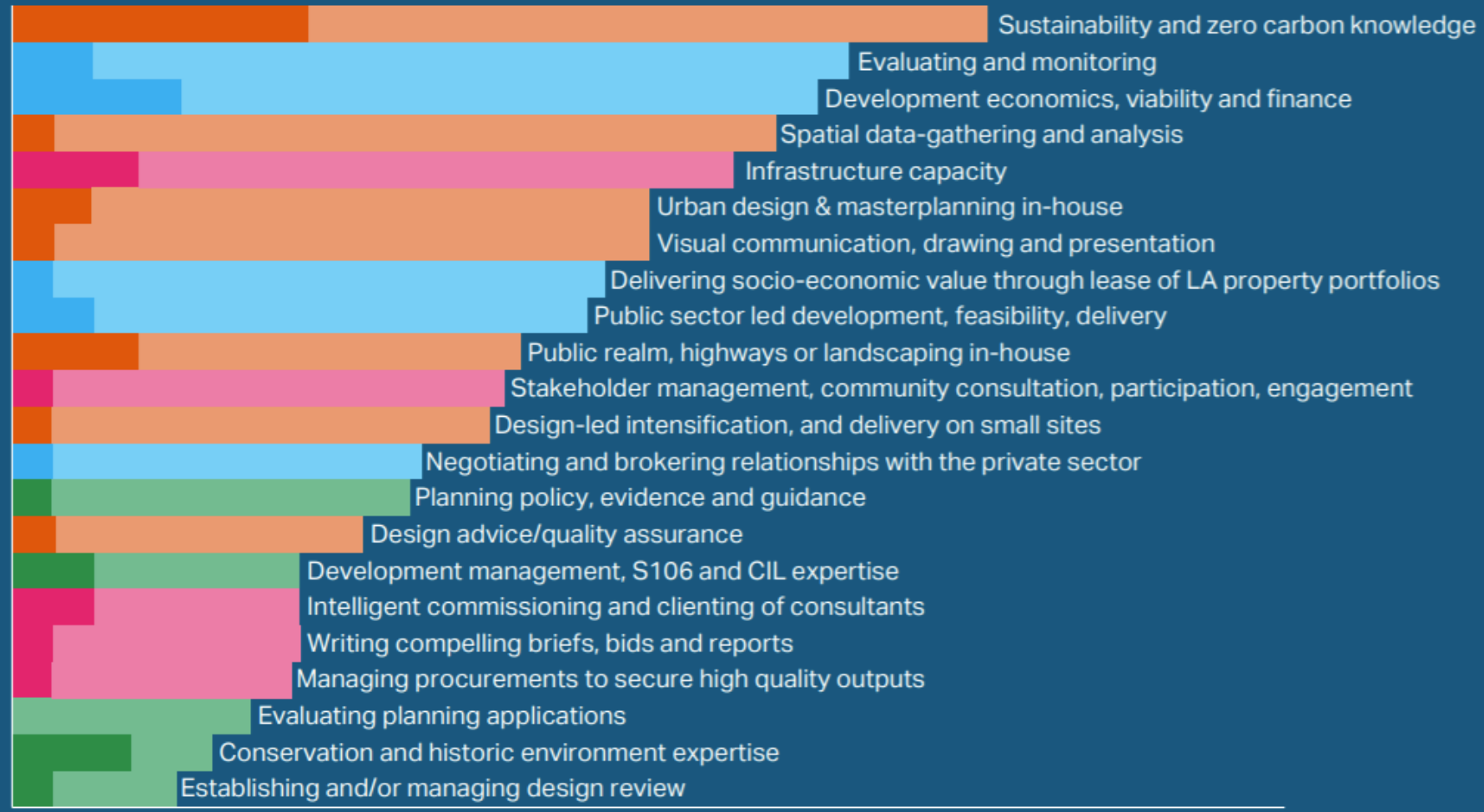
"Secured a Low Energy Design Strategy (targeting Passivhaus standard) for all new homes delivered by a council over the next 20 years"

Public Practice Resources





Authority capacity needs



Key specialisms authorities lack include:

- Environmental sustainability and zero carbon knowledge and skills
- Evaluating and monitoring the impact of regeneration
- Understanding of development economics, viability and finance

https://www.london.gov.uk/sites/default/files/2020_placeshaping_capacity_survey.pdf

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HOW IS CLIMATE RESPONSE RELEVANT TO US?

In the UK, the built environment, accounts for around 42% of emissions

5.2 million buildings are currently at risk of flooding in the UK
(Environment Agency, 2019)

WHAT HAVE WE DONE SO FAR?

A review of what is needed at a local, regional and planetary scale.

Analysis of our schemes and operations to date

Setting out our plan of how to adapt our schemes to respond to the identified needs.

ACTION PLANNING

ONE PLANET LIVING | A framework by Bioregional

https://www.bioregional.com/one-planet-living

GAP ANALYSIS

Addresses sufficiently (3)
Addresses somewhat (2)
Doesn't address at all OR N/A (not included in calculations)
Actively inhibits / opportunities missed (1)

3.3. Ravensdale gap analysis

		Design	Const	Ops	Strengths:	Areas of improvement:
Health & Happiness	*Physical wellbeing:*				- Homes designed to be comfortable and climate-resilient year-round	- A more considered approach to the use of greenery looking at environment e.g. UHI, shading, AQ should be given - Potential to look at costs of green coverage and growing plants on the exteriors of buildings
	Mental wellbeing:					
	Feelings of Safety & Security:					
Equity & Local Economy	*Tackling deprivation:*				- Good quality market housing subsidising affordable units elsewhere - priority to local people - Provision of 8 permanent FTE jobs.	- Consideration of local suppliers, trades and training - Support local businesses on occupancy through early engagement - Demonstrate how design has considered demography and specific local needs
	Access to quality housing:					
	Support employment opportunities:					
Culture & Community	*Support resident integration:*				- Good public consultation and engagement - Design features to encourage interaction	- Support for community integration and meting neighbours on occupancy - improved common areas - Celebrate the local and contribute to a sense of place - Encourage and support the culture of sustainability
	Neighbourliness:					
	Social cohesion:					
Land & Nature	*Urban greening initiatives:*				- Regeneration of brownfield site - Good use of SUDS	- Improve the quality of the green roof - Take measures to engage people with nature - Improve Urban Greening factor
	Biodiversity net gains:					
	Natural flood prevention measures:					
	Access to nature:					
Sustainable Water	*Water efficiency:*				- Water efficient appliances and appropriate target - Greenfield run-off rates	- potential to integrate water butts for residents gardening and construction needs
	Minimise run-off:					
Sustainable Food	*Healthy, low-impact diets:*					- potential to provide growing spaces/allotments
Travel & Transport	*Improve public transport access:*				- Strong travel Pack with info on cycling routes, discounts on car club - Development future-proofed for EV's until 2040	- Reimagine cycle storage to make more attractive and usable - Consider technology to support sustainable transport
	Pedestrian & Cycle facilities & routes:					
	Reduce private vehicles on fossil fuel:					
Materials & Products	*Low impact:*				- Timber frame construction - Demonstration of responsible sourcing - Reasonable interior specification (e.g. low VOC paint, BREEAM A+ carpet, FSC flooring, kitchen units etc)	- Commitment to 'materials derived from recycled and reused content - Potential to locally source materials
	Responsibly sourced:					
	Circular principles:					
	Reduce impact of consumption:					
Zero Waste	*Waste hierarchy:*				- Commitment to 95% diversion of non-hazardous waste to landfill. - Promotion of recycling	- Potential to look to support people to adopt a waste hierarchy - more information within residents' handbook
	Zero from construction:					
Zero Carbon Energy	*Maximise energy efficiency:*				- Units are energy efficient (good reduction against Building Regs at Be Lean stage) with good use of renewables	- Look to replace gas with ASHP or electrically driven equivalent. - Provide renewable energy tariff on occupation
	Renewable energy on-site:					
	Renewable off-site:					

BUSINESS WIDE TOOLS

How to achieve net zero carbon on projects already underway?

ONE PLANET LIVING : NET ZERO CARBON

Be 100% renewable electric homes

Maximise Solar PV on site with storage capability

Low heating demand Energy efficient

< 35 kwh/sqm/y

target for < 15 kwh/sqm/y

Low total energy use demand of

< 105 kWh/sqm/y

target for < 35 kwh/sqm/y

unregulated energy consumption is offset by UK offsite renewable and/or woodland and reforestation projects

Proportion of energy savings at Be Lean, Be Clean and Be Green stages 60%; 30%; 10%.

Follow The Low Energy Transformation Initiative (LETI) guide.

Thank you

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THE CLIMATE EMERGENCY IN LAMBETH

Lambeth, working together to tackle climate change.

Climate change has become a climate crisis. We need to act urgently to protect the health and wellbeing of Lambeth's residents.

How? By becoming carbon neutral. It’s a necessary target. And an ambitious one.

That’s why we need your help. Only by joining forces with the amazing Lambeth community, can we become carbon neutral as a borough.

Share your ideas for reducing carbon emissions and creating a more resilient Lambeth. Your ideas will be shared with the Lambeth citizens' assembly, who will help create a climate action plan for the whole borough.

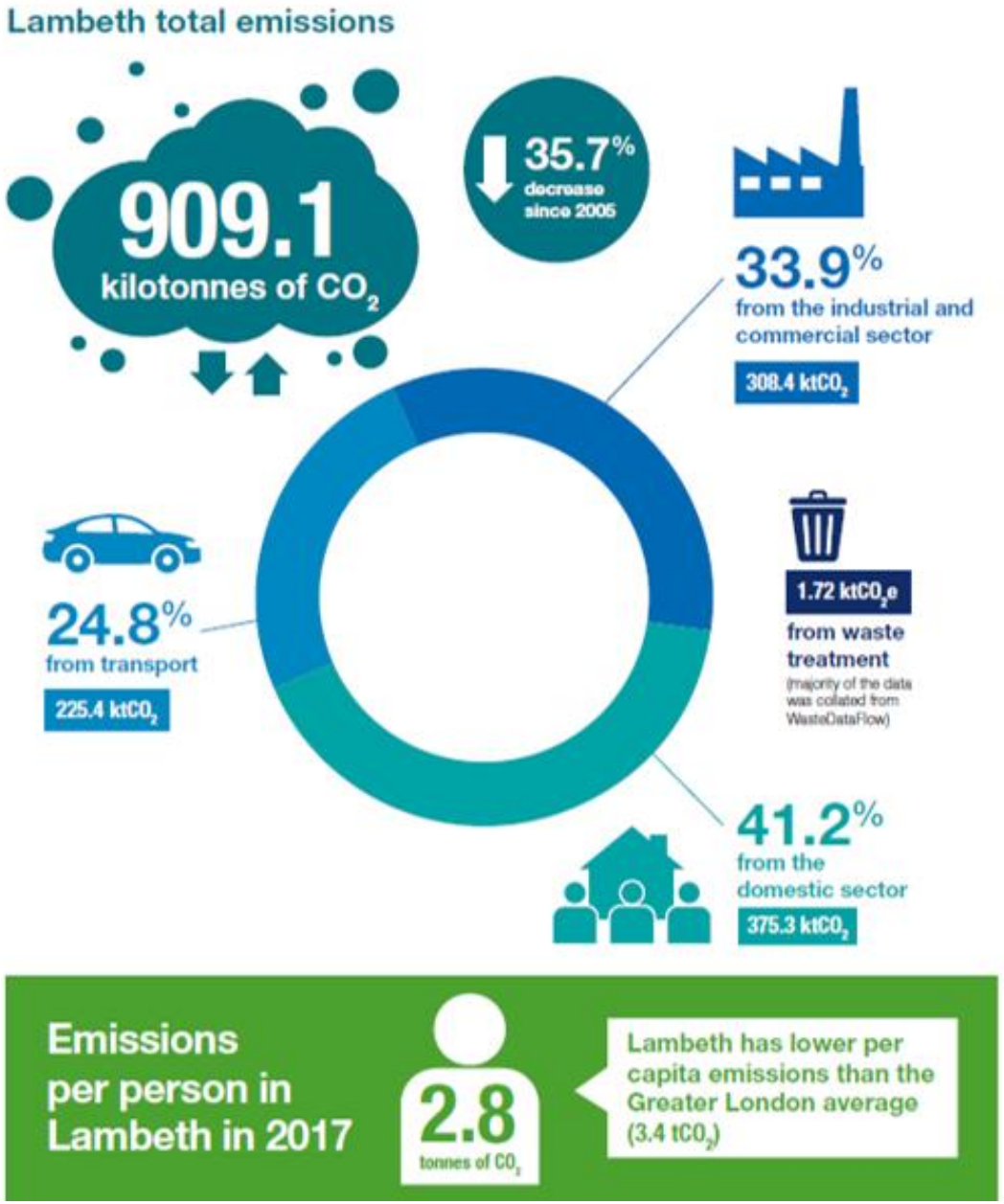
Let’s work together to tackle the climate emergency and create a better future in Lambeth.

Have your say

Learn more about the project

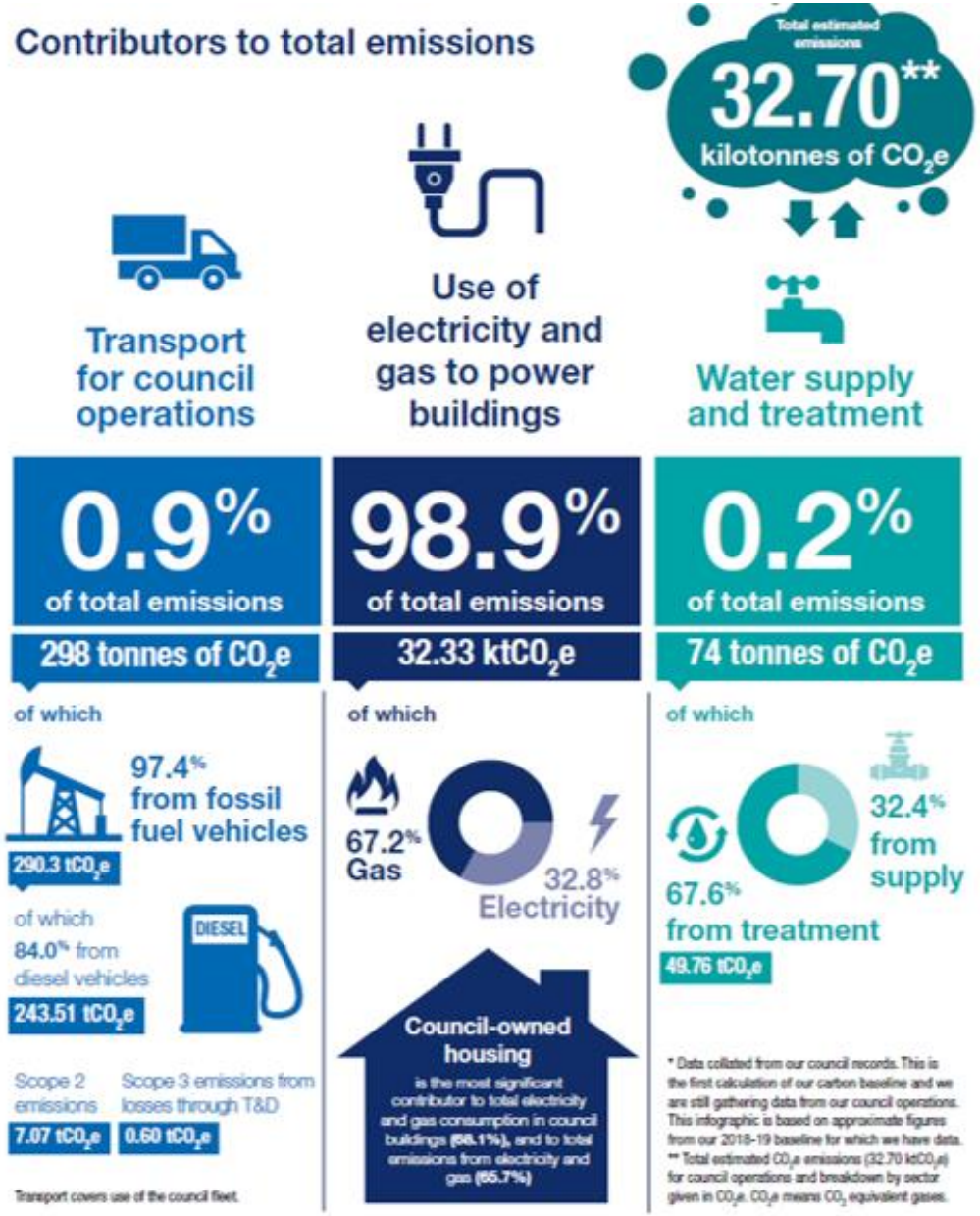
https://lambethclimateaction.commonplace.is/

CAUSES & IMPACTS OF CLIMATE CHANGE



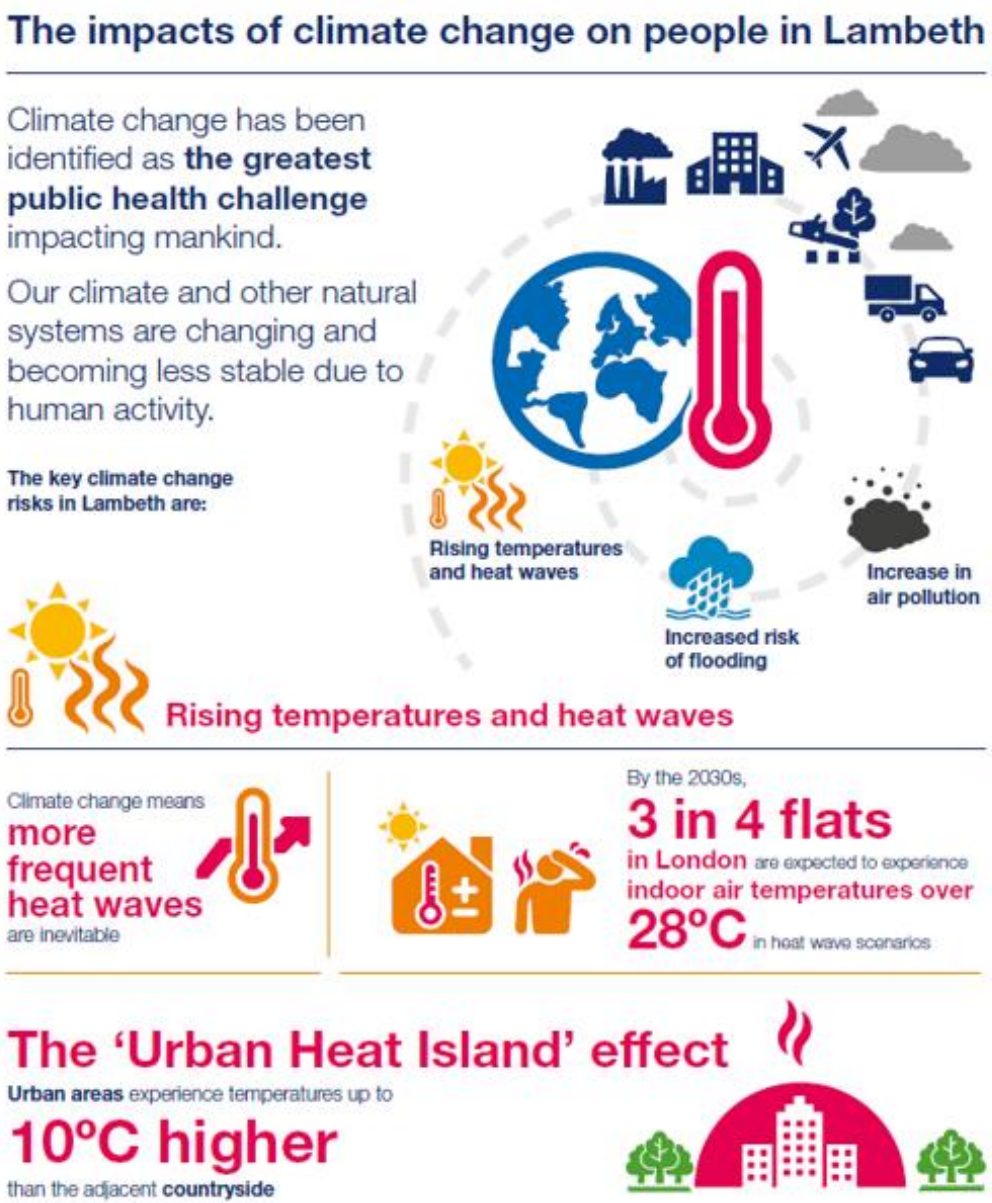
EXTERNAL: BOROUGH WIDE CARBON EMISSIONS

- Three main sources of carbon emissions
  1. Homes
  2. Industrial and commercial
  3. Transport
- These emissions arise from the fuel we use to heat and power our homes, workplaces, and vehicles
- We have seen significant decreases over the last 15 years, particularly as the UK has increased the amount of renewable energy produced
- But we will need to go much further to reach carbon neutrality



INTERNAL: COUNCIL'S CARBON EMISSIONS

- The gas and electricity we use to power buildings is the biggest source of emissions for the council (98.9%)
- Of this, the most significant contributor is our council homes (65.7%)
- Council accounts for less than 5% of borough-wide emissions, but plays a critical leadership and enabling role



IMPACTS OF CLIMATE CHANGE IN LAMBETH

- Rising temperatures and heat waves
- Increased risk of flooding
- Increase in air pollution

Climate change, like covid-19 and other shocks, could worsen existing vulnerabilities and inequalities

The greatest health and economic burden will be experienced by those **unable to prepare, adapt and recover** due to:

Existing health problems

Extremes of age

Social deprivation

People in deprived areas are more likely to live in **poorly ventilated homes, with limited access to green space, more air pollution** and limited options to improve housing conditions.

Climate action needs to recognise this threat and mitigate the risks for our most vulnerable residents in particular.

LAMBETH YOUTH COUNCIL : CLIMATE CHANGE 11 JUNE 2020

Approach climate change from our perspective

Show young people the direct impact on our lives, short-term & long-term

Show us the impact on other peoples lives here & around the world

Connect climate action with social & economic justice!

Work with us Use our tactics/tech/apps

Don't assume people own their own homes

Don't pass the costs on to individuals & families Show us how climate action will create local jobs

Climate action is not an additional priority– it is the means by which we can achieve some of our core outcomes

Action	Carbon	Health	Economy	Equity	Resilience
Insulating homes 	Cuts energy demand and cuts carbon emissions	Reduces fuel poverty as people stay warmer	Creates jobs for local people, and people save money on their energy bills which they may spend locally	Increased access to affordable warmth	Households are better placed to withstand future energy price rises as well as overheating during heatwaves
Car sharing 	Reduced fuel consumption cuts carbon emissions	Reduced NOx improves air quality. Improved wellbeing through social interaction	People save money on their fuel, which they may spend locally. People can make journeys (e.g. to work) that they may not otherwise be able to do. Reduced congestion	Brings people together; can reduce isolation and loneliness	Increased resilience to impact of future fuel price rises
Cycling 	Reduced fuel consumption cuts carbon emissions	Reduced NOx from combustion engines improves air quality. Increased activity increases health	Money saved on petrol. Reduced congestion	Increased connections to local community through cycling initiatives	Resilience to future increase fuel costs

CLIMATE CHANGE RESPONSE PROGRAMME

VISION & KEY OUTCOMES

A just, thriving and resilient Lambeth, that has played its part in mitigating the worst impacts of climate change and has adapted to protect the health, wellbeing and prosperity of its residents. To achieve this, we will:

INTERNAL: Transform the council's operations and estate to be carbon neutral by 2030

EXTERNAL: Agree and facilitate a borough-wide approach to reach carbon neutrality

EXTERNAL: Improve the borough's resilience to the impacts of climate change

PROGRAMME OVERVIEW: WORKSTREAM STRUCTURE

- Communications & engagement
- Data & decision-making
- Adaptation & resilience
- Energy & buildings
- Transport & air quality
- Waste & circular economy

Inequality and public health: Reducing fuel poverty, prioritising residents at risk of impacts, improving health

Green economy: Local training & jobs, community wealth building (e.g. community energy), increasing green business

EXAMPLE: ENERGY & BUILDINGS WORKSTREAM - SCOPE & KEY PROJECTS

Zero Carbon Energy & Heat	Strategy and programme of interventions to decarbonise energy and heat	Council: Expand renewable energy generation (e.g. solar PV) on our own estate and replace gas where possible Borough: Develop energy & heat strategy (consider: district heat networks, heat recovery, renewable energy generation)
Zero Carbon Retrofit	Improve energy efficiency of existing buildings and adapt to the impacts of climate change	Council: Programme of retrofit – Housing, Non-resi, Schools Borough: Enable retrofit for partners and residents (e.g. case studies, trusted advice and contractors, access to funding)
Zero Carbon New Build	Facilitate net zero development that will be able to cope with the impacts of climate change	Council: Lead the way with our own development (e.g. set and monitor KPI's with HfL and Capital Studio) Borough: Review and optimise net zero policy / levers

Inequality and public health: Reducing risk of negative impacts, prioritising residents at risk of impacts

Green economy: Local training & jobs, community wealth building (e.g. horticulture jobs), green business

A CITIZENS' ASSEMBLY ON CLIMATE CHANGE

Typically between 20 and 150 members of the public

To deliberate for over at least twenty five hours

The members are randomly selected to a profile that reflects the diversity of the population the process is serving

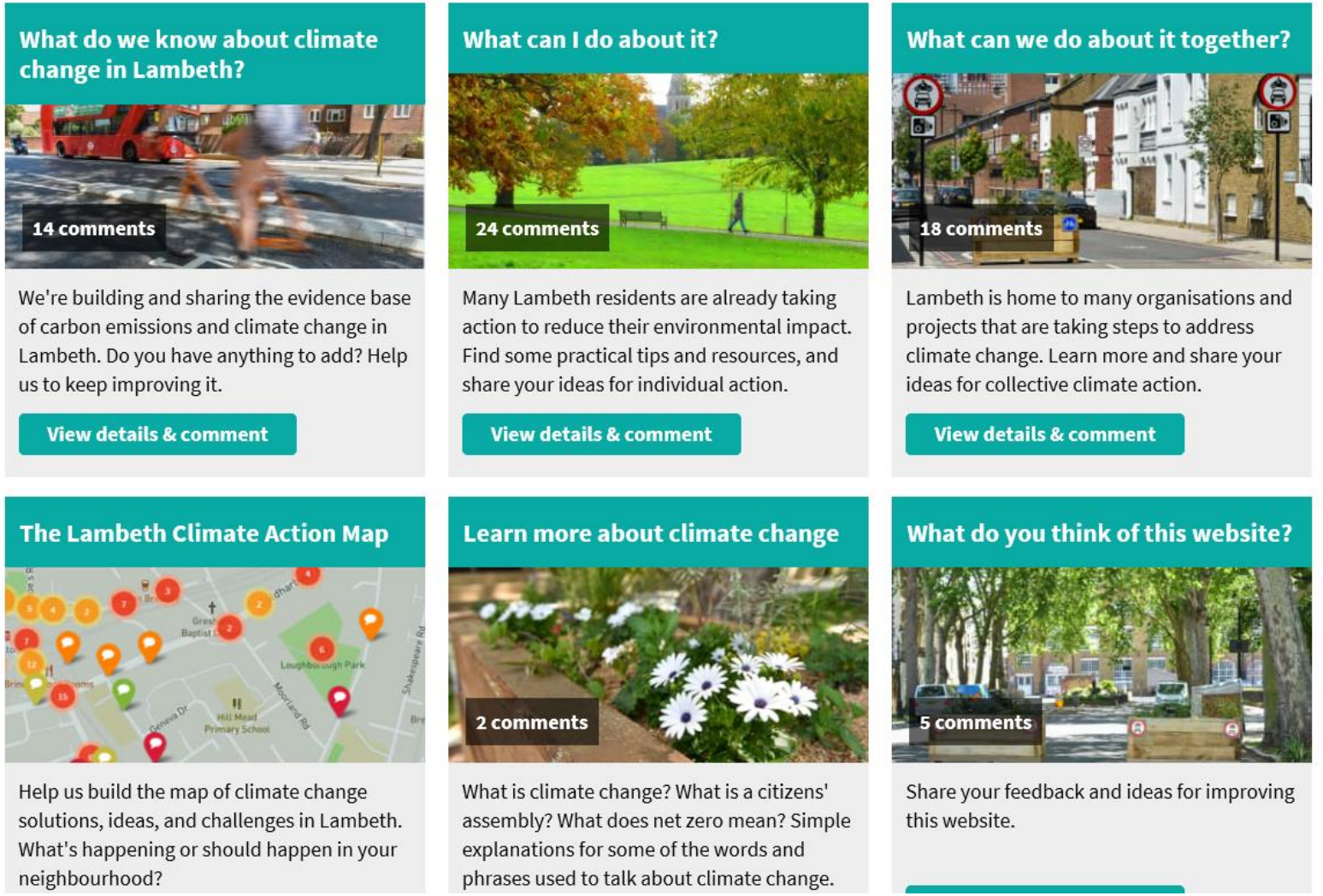
After sharing ideas and opinions with each other, and hearing from a range of independent experts, the participants write a set of recommendations

A diverse panel of key stakeholders meets to check the process is balanced and unbiased

All citizens are paid for their involvement and supported to participate fully

C-19 HAS DELAYED OUR CITIZENS' ASSEMBLY

- But we need to maintain momentum around this work
- We launched our online pre-engagement in July 2020
- https://lambethclimateaction.commonplace.is/



OUR KEY FOCUS AREAS FOR THE NEXT 12 MONTHS

AWARENESS & ENGAGEMENT:

Hold a successful and inclusive citizens' assembly and publish our borough-wide climate action plan

DATA & IMPACT MEASUREMENT:

Continue to improve our baseline data and agree our roadmap to net zero (council & borough-wide)

COLLABORATING & EMBEDDING:

Embed climate mitigation and adaptation into business as usual and support a green economic recovery

THANK YOU

WORKING TOWARDS A CLIMATE ACTION PLAN

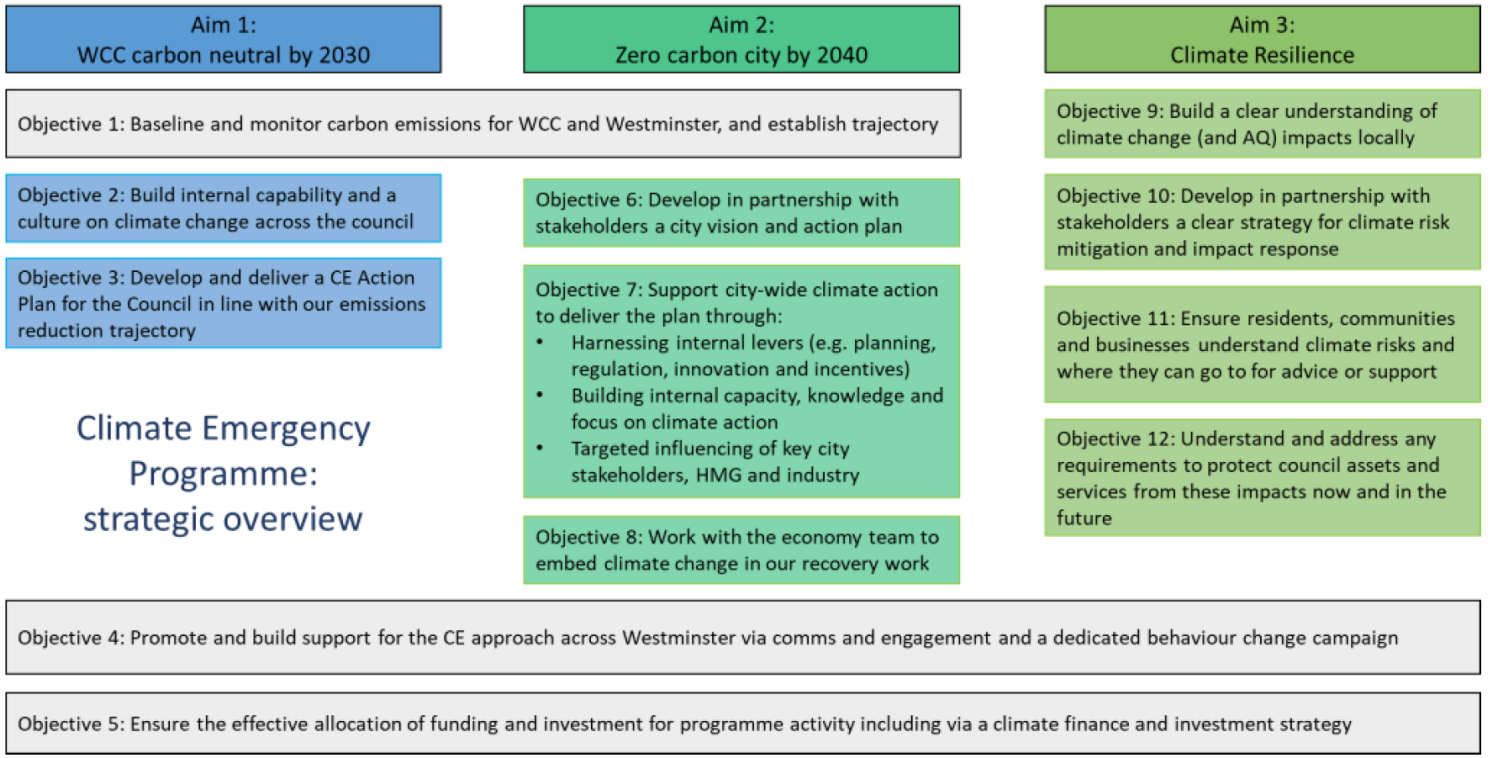
JO GAY – TEAM LEADER: ENVIRONMENTAL POLICY AND PROJECTS

ZERO CARBON 2040
Westminster Climate Action

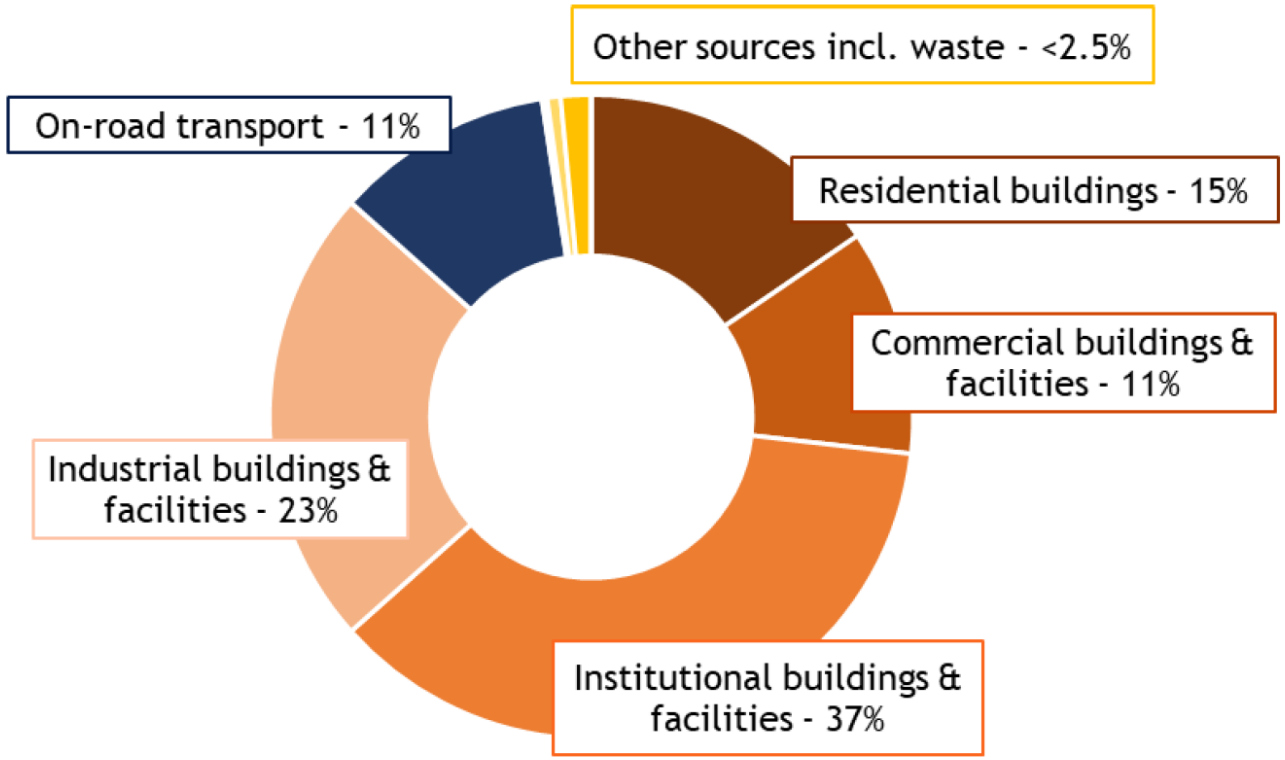
CLIMATE EMERGENCY DECLARATION

- WCC Carbon Neutral by 2030
- Zero Carbon City by 2040

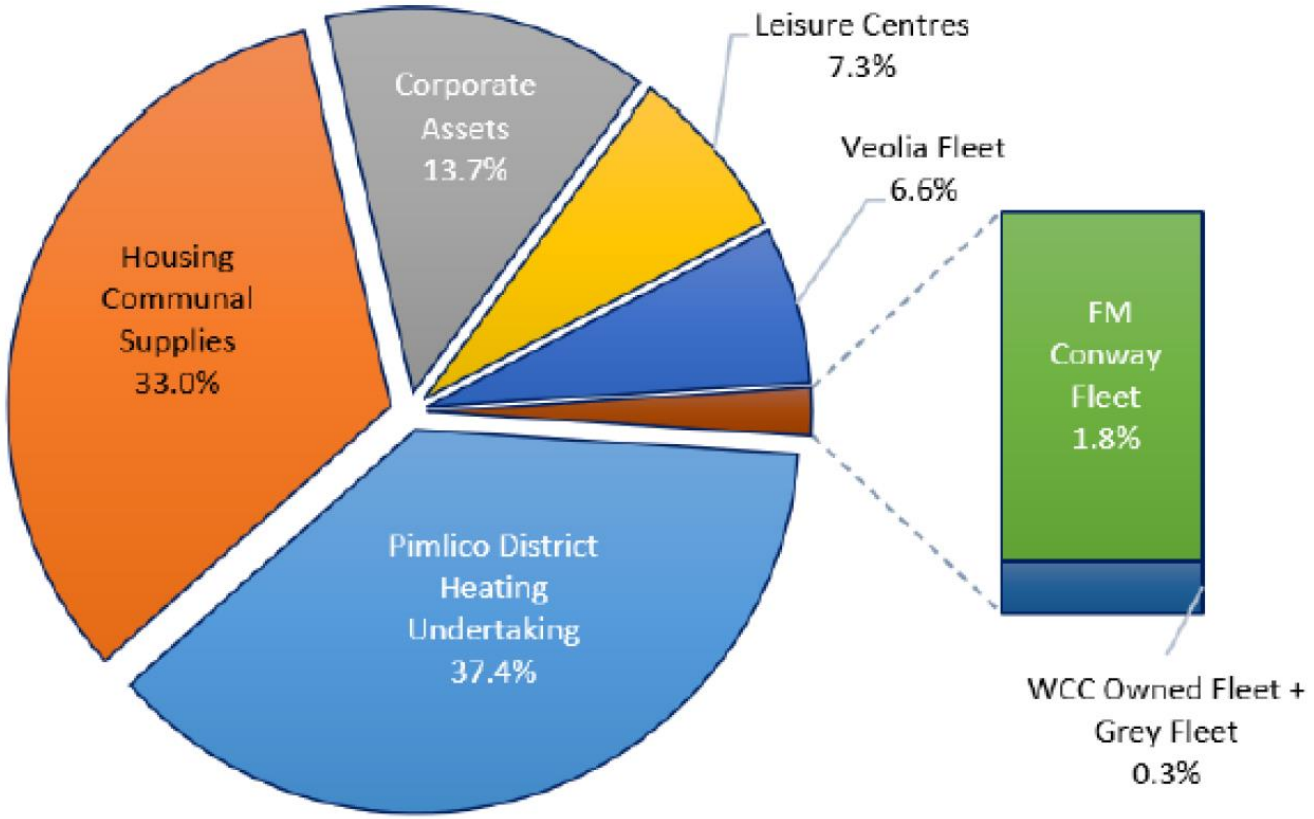
CLIMATE EMERGENCY PROGRAMME KEY OBJECTIVES



CITY WIDE EMISSIONS (2017)



COUNCIL EMISSIONS (2018)



DEVELOPING THE ACTION PLAN

Buildings, assets and operations

1. Eliminate emissions across WCC estate & assets:

- Maximise the use of low carbon energy (e.g. solar, heat pumps & green tariffs)
- Deliver energy efficient streetlighting
- Deliver holistic improvements across WCC sites
- Confirm offsetting strategy for residual emissions

2. Design and build all new facilities to zero carbon standards

Homes and communities

3. Improve energy standards across WCC housing stock:

- Target EPC B standard
- Roll out low carbon heat pumps and/or solar energy
- Innovate solutions on hard to treat building typologies
- Deliver a zero carbon retrofit pilot
- Deliver a large scale retrofit programme on all properties

Travel and transport

4. Eliminate emissions from WCC travel:

- Reduce the frequency of WCC refuse collections
- Electrify the refuse and street-cleansing vehicle fleet
- Set zero carbon standards for all WCC vehicles
- Prioritise flexible and sustainable travel modes

Low carbon energy

5. Decarbonise PDHU

- Replace gas-fired CHP with low carbon heat pumps
- Use secondary and waste heat sources (e.g. from the tube)
- Expand low carbon heat networks across the city

Consumption and waste

6. Cut the impact of outsourced services:

- Set low carbon performance standards in all WCC contracts
- Deliver a low carbon highways maintenance programme (electrified plant and low carbon materials)
- Address the embodied carbon of procured goods & services

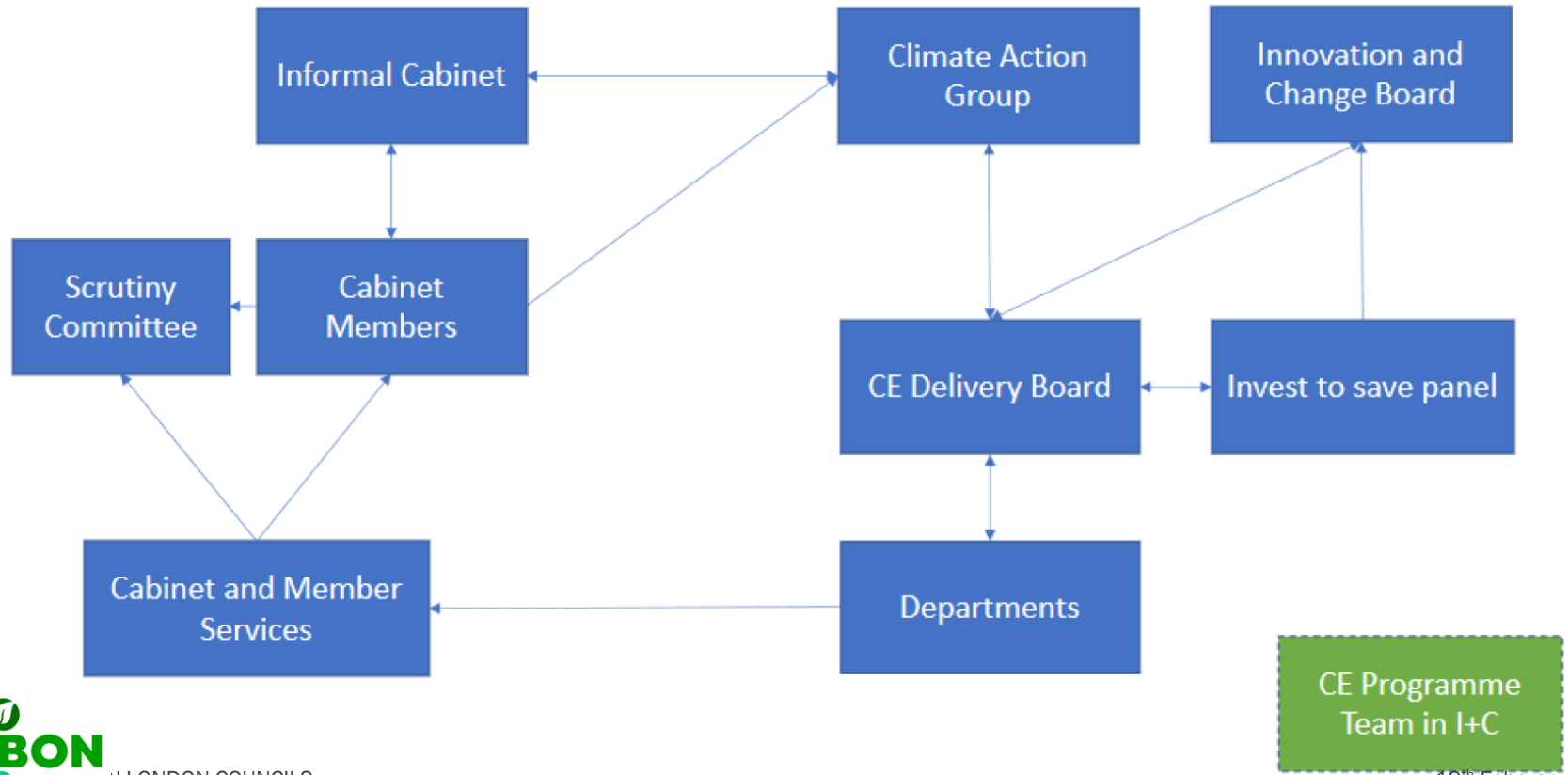
PANDEMIC-DRIVEN OPPORTUNITIES

Nitrogen dioxide (NO_2) levels between 24th March and 22nd April in 2019 and 2020 at Westminster's automatic air pollution monitoring sites.

Monitoring site	Type of site	24/03 – 22/04 2019 NO_2	24/03 – 22/04 2020 NO_2*	% change
Marylebone Road	Kerbside	59.8	30.5	- 49
Horseferry Road	Urban Background	43.4	25.6	- 41
Oxford Street	Kerbside	59	28.6	- 51.5
Strand	Roadside	80.2	38.5	- 52
Covent Garden	Urban Background	44.2	24.5	- 44.6
Cavendish Square	Roadside	51.3	29	- 43.7
Oxford Street East	Roadside	64.4	35.9	- 44.3
Buckingham Palace Rd	Roadside	56.6	25.8	- 54.4

*2020 data has not yet been fully ratified and calibrated and may be subject to subsequent adjustments

NEW NORMAL


Informal Cabinet
Climate Action Group
Innovation and Change Board
Scrutiny Committee
Cabinet Members
CE Delivery Board
Invest to save panel
Cabinet and Member Services
Departments
CE Programme Team in I+C

THANK YOU FOR YOUR TIME

Let’s keep in touch

climateemergency@westminster.gov.uk