

A Net Zero City

Paula Mcleay City of Edinburgh Council

Council Net-Zero action

Net-zero 2030 target set

Set by Council in May 2019

Engaging with citizens

Youth Summit, Edinburgh Talks Climate Dialogue site, online civil society event, Citywide Climate Survey

Immediate action to increase pace to meet net zero

Following Net Zero Commitment, implemented short actions to bring forward meaningful change across Council

Refocussing Council strategies, business plan and budget

City Plan, City Mobility Plan, City Centre Transformation, housing development investment plans delivering on net zero target. New Council Business Plan and future budgets focussed on 3 priorities – Poverty, Sustainability and Wellbeing

Demonstrating meeting the big challenges

Bringing in international expertise to design innovation sites in Edinburgh that show how we can maximise delivery of carbon reductions and other co-benefits.

Measuring carbon impacts

Developed Carbon Scenario Tool to give a robust evidence-based approach to the net zero target. Future evaluation of projected carbon emissions impact for City and Council.

Edinburgh Climate Commission

Co-sponsored the establishment of Edinburgh's independent Climate Commission to challenge, champion and catalyse city climate change action (July 2020 [Green Economic Recovery](#))

Founding signatory to the [Edinburgh City Compact](#)

Alongside the health, finance, investment, construction, education, arts and culture sectors, that are committed to green recovery actions and helping Edinburgh meet net zero by 2030.

2030 City Net Zero Strategy

Working with City Partners to develop a City Sustainability Strategy to delivery a net zero city by 2030

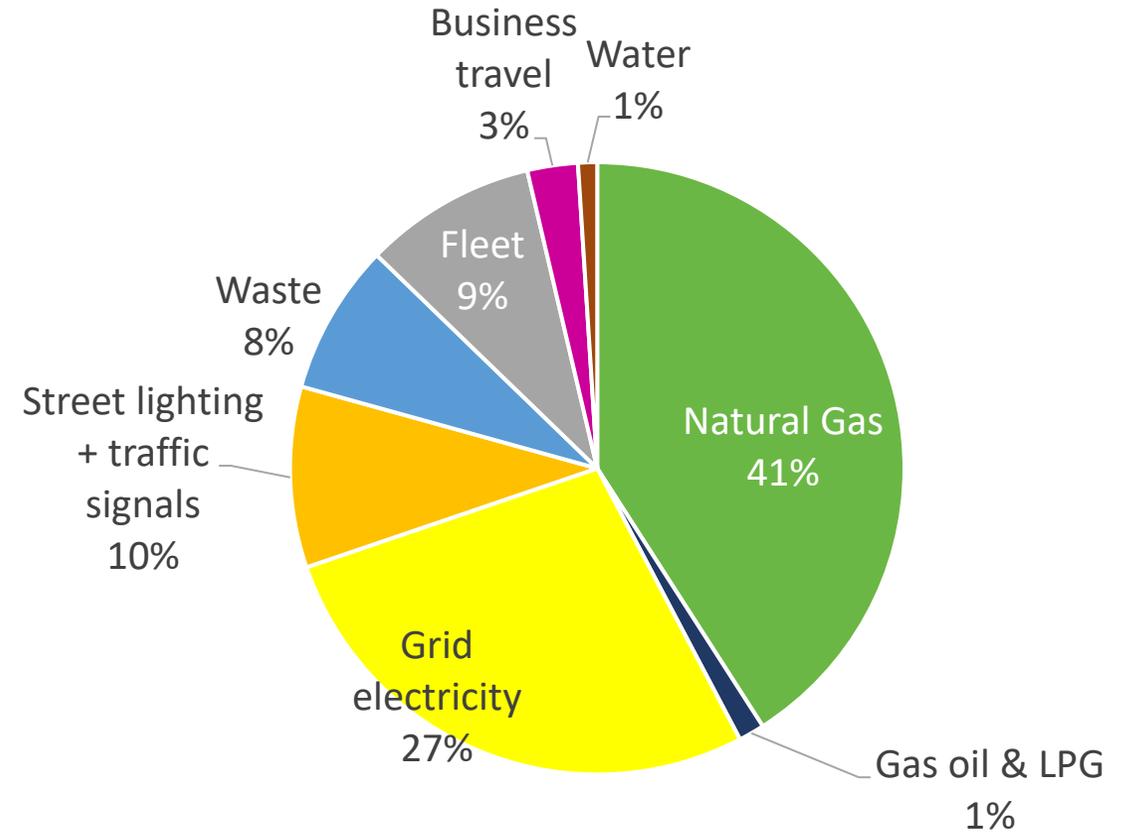
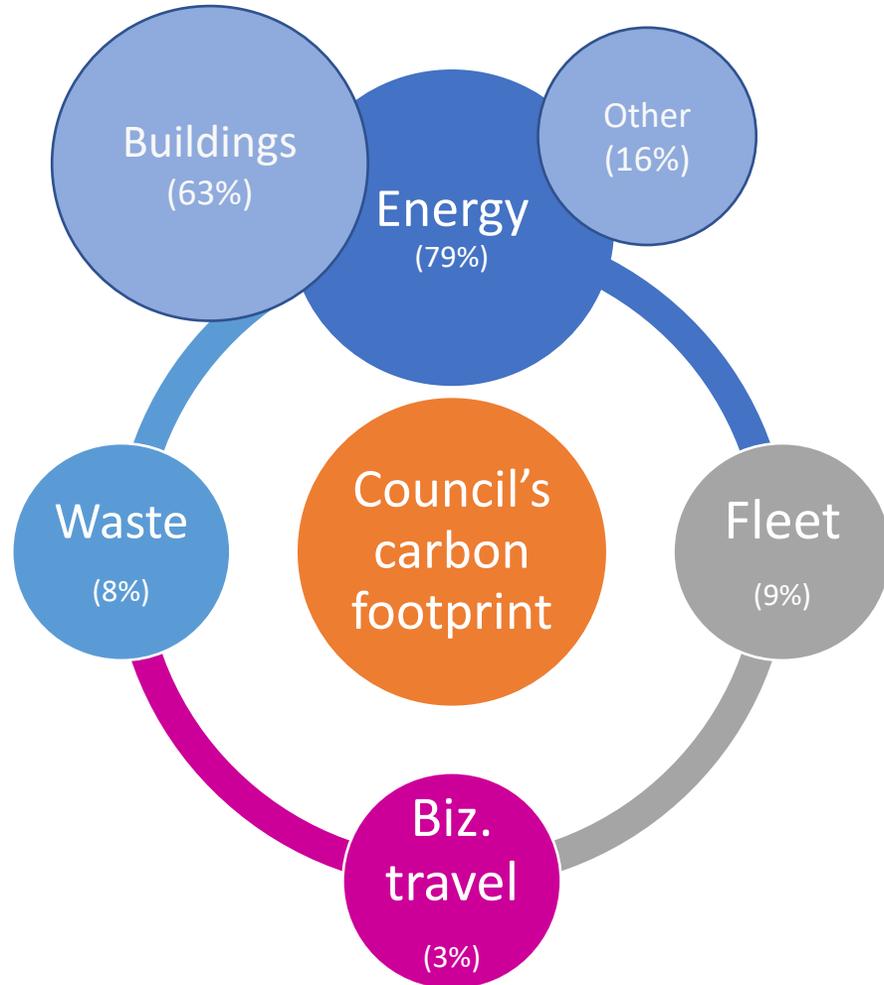
COP 26

Support the management of COP26 impact on the city and develop plans for promoting Edinburgh during the Global event

Council Emissions Reduction Plan

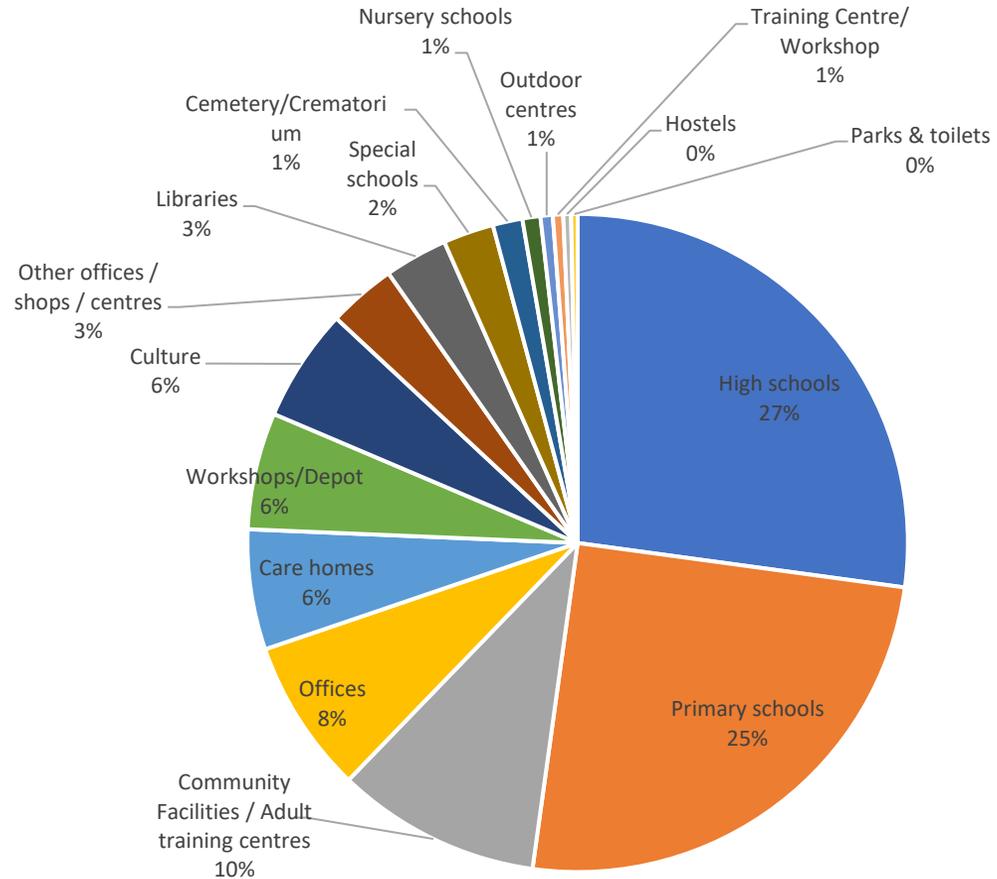


The City of Edinburgh Council Carbon Footprint 2019-2020



Total : 73,500 tCO₂e

Breakdown of buildings emissions per building type

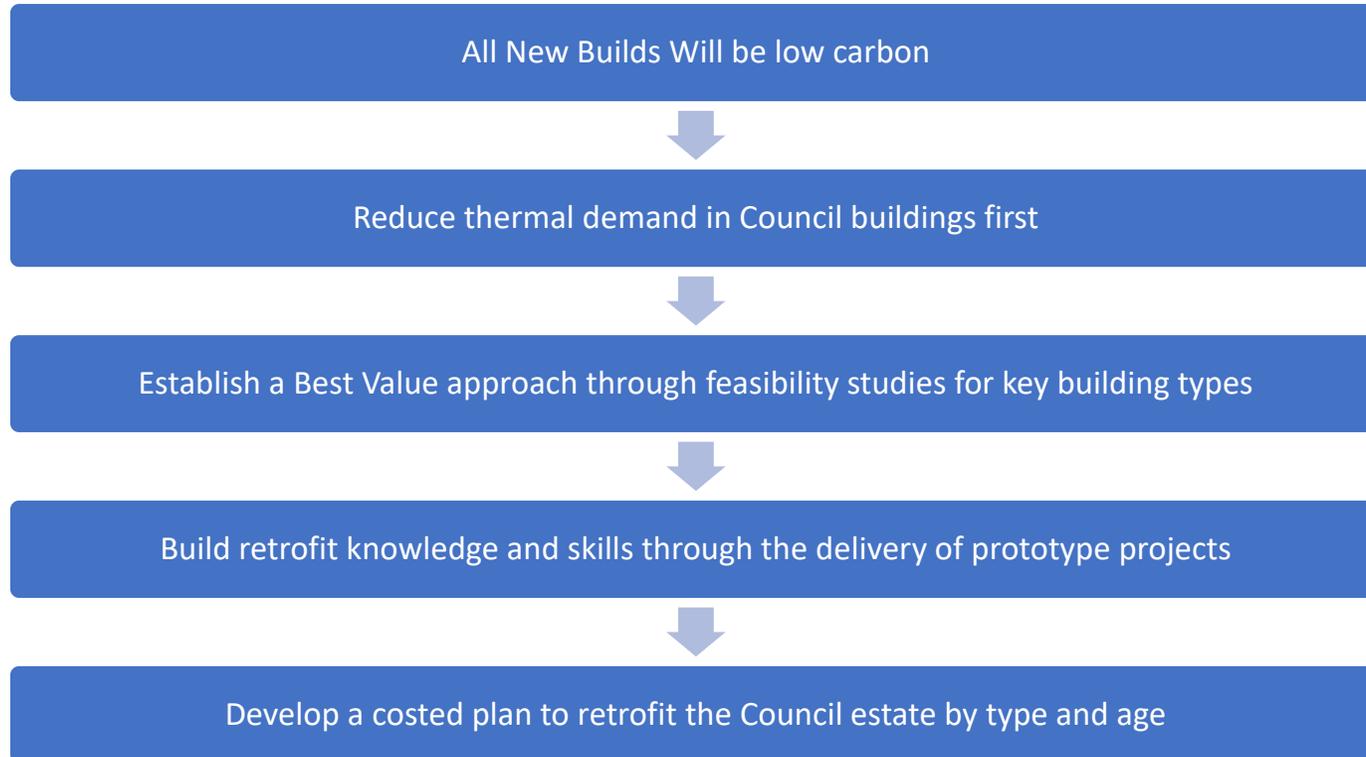


	No. of buildings	Floor area (m2)
Edinburgh Leisure	52	69,152
PPP/DBFM	35*	211,348
Council properties	578*	639,999
TOTAL	665*	920,499

* across 282 sites - 254 Council operational sites and 28 PPP/DBFM

- 40% of CEC operational estate built within the last 50 years.
- 30% over 100 years old
- 57 buildings a year to 2030

Buildings – strategic approach



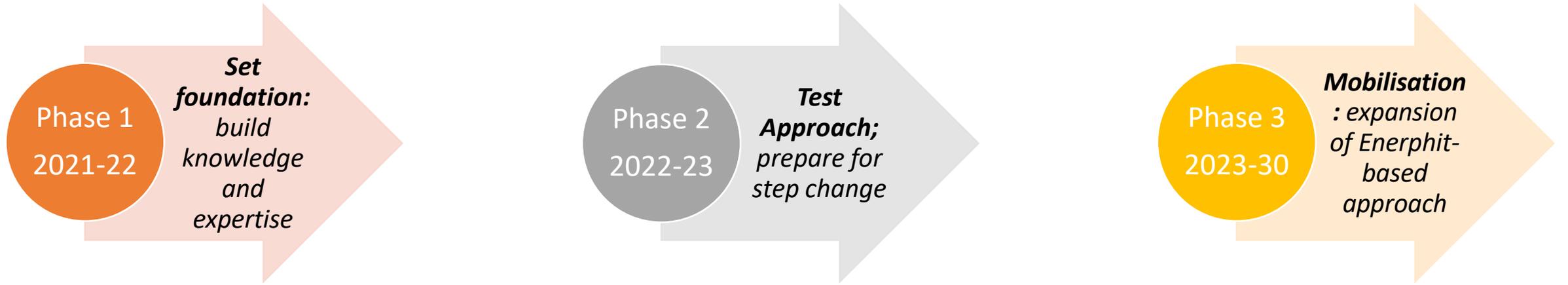
3 KEY PROGRAMMES:

- 1) Decarbonising the estate
- 2) Low Carbon heat
- 3) Expansion of solar PV

+ 3 FURTHER INITIATIVES (at conceptual stage):

- 1) Circular economy strategy to reuse assets
- 2) Energy efficiency / smart technology
- 3) Estate rationalisation

Buildings - Phased plan



- Enerphit pilots: Identification of 2 key properties of differing types
- LZC heat, Passivhaus and PV as standard
- Enerphit high level desk exercise
- Enerphit Phase 1 (additional 8-10 buildings)

- Proposal for enhanced AMW programme based on Enerphit methodology
- CEC first Passivhaus building; *plus* first Passivhaus Primary School
- Seek budget for delivery of Enerphit based retrofit
- Start works on Enerphit pilot buildings, subject to resources

- Report on outcomes from Enerphit pilot and set 2030 plan and funding requirements
- Move to delivery of wide scale Enerphit based building retrofits (*targeted* approach – entire estate would require up to 57 buildings *each year*)
- Scale up in-house resource and supply chain for delivery

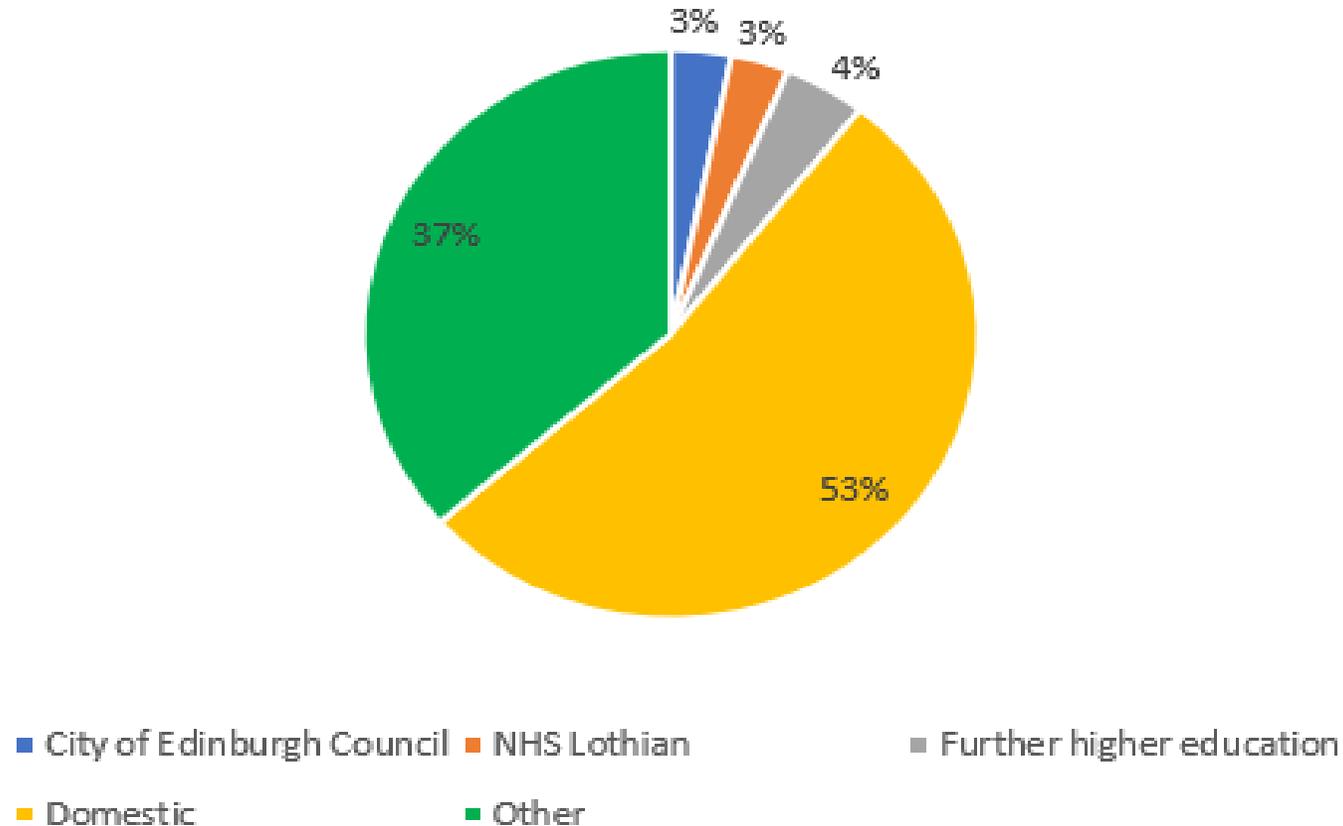
City Net Zero 2030 Strategy



From Council to Collective City Action

City Net Zero Strategy 2030

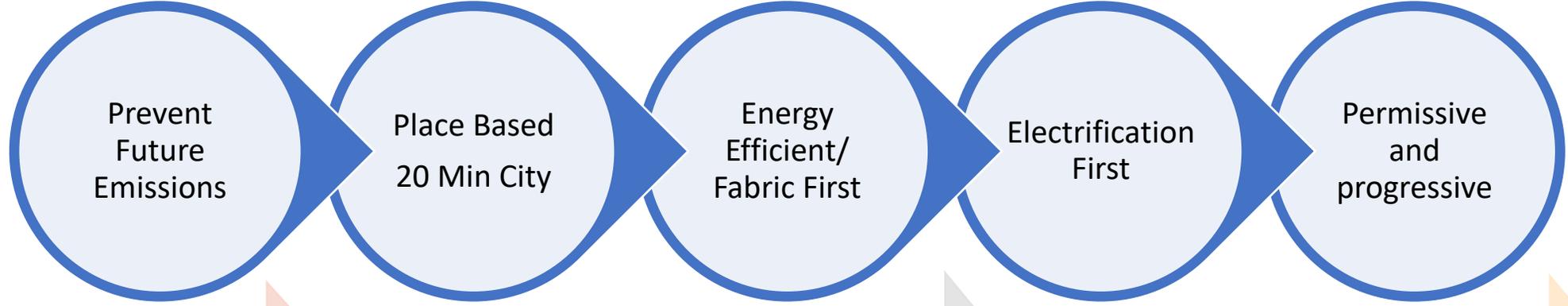
Emissions by key organisations



The public sector owns just 12% of the city emissions

No one partner has all the answers, powers or resources to drive change

Principles



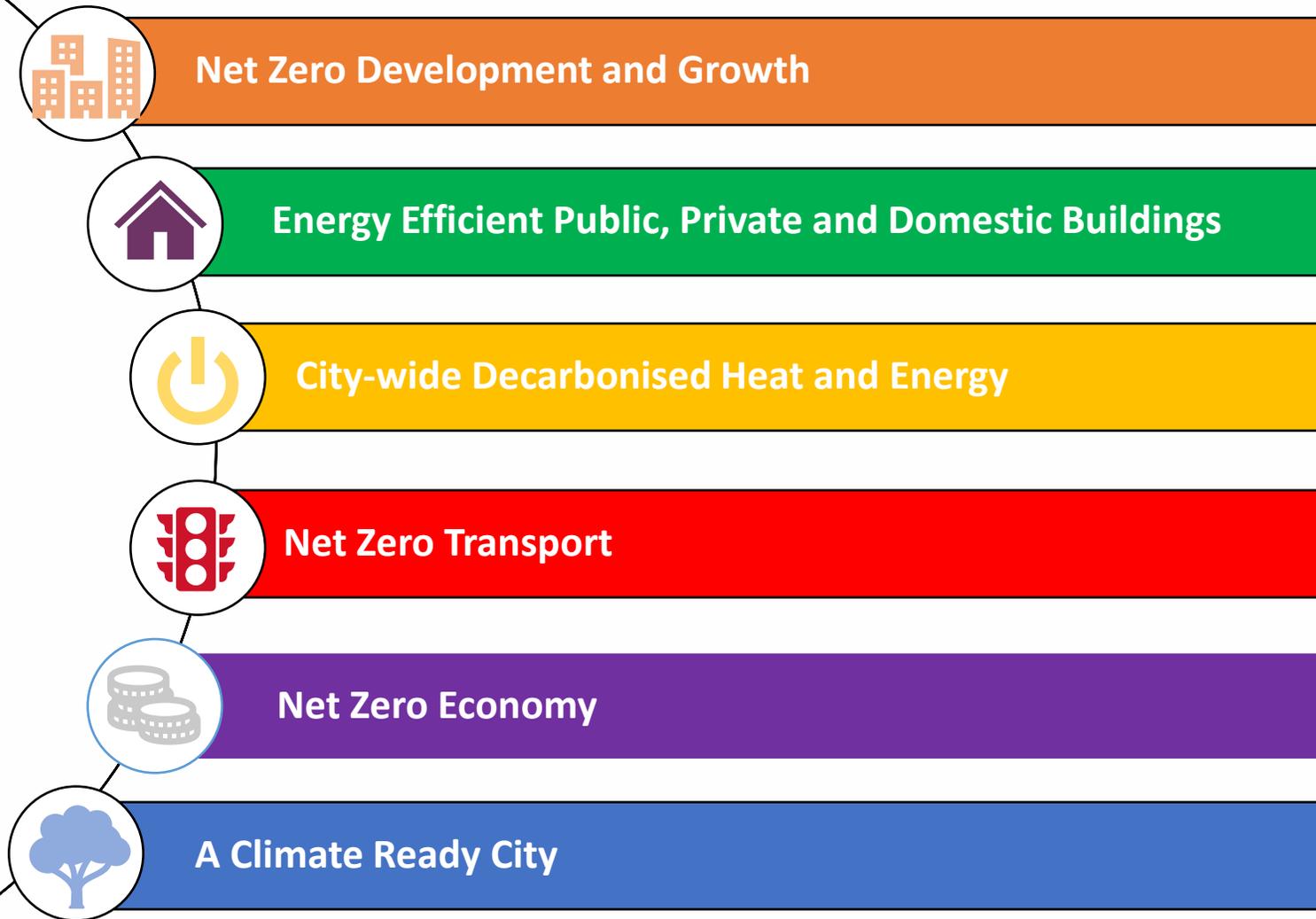
Approach



Enablers



Net Zero 2030 – Strategic Action Areas



Data /
knowledge
development

City Partner
collaborations



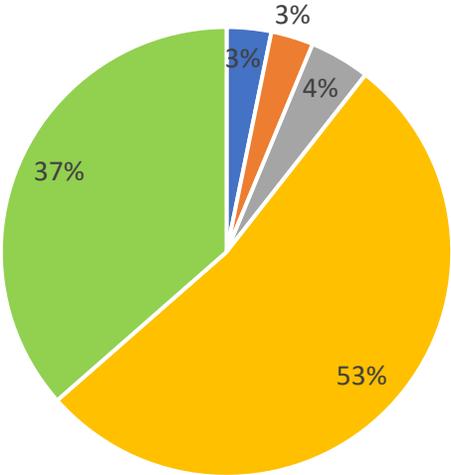
Developing models
to fund change

**Citizen
Behaviour
change and
consent**



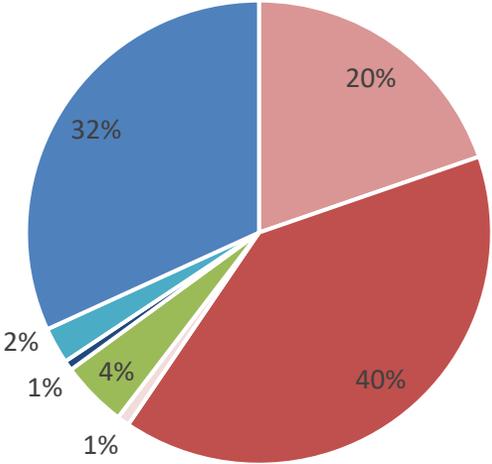
Share of domestic emissions in the city's total

Emissions by key organisations



■ Council ■ NHS ■ FHE ■ Domestic ■ Other

Breakdown of domestic emissions



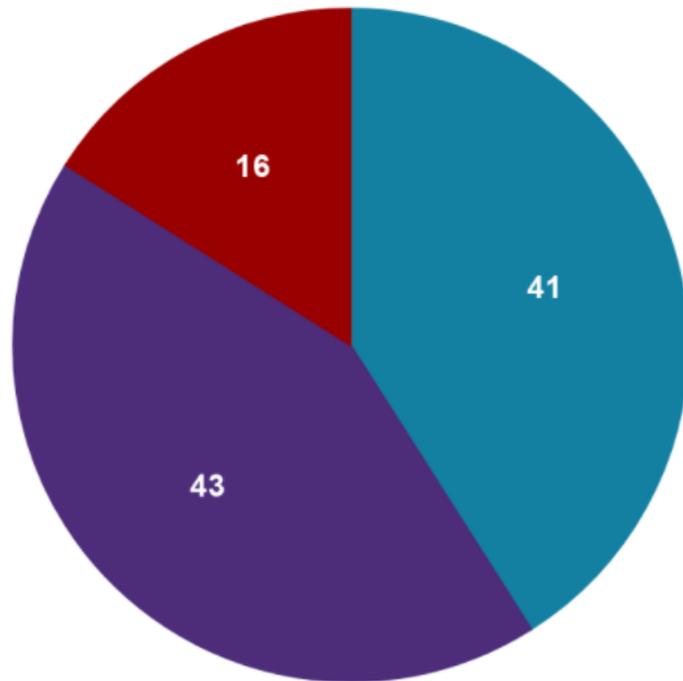
■ Buildings electricity ■ Buildings natural gas
 ■ Buildings - other energy ■ Waste
 ■ Train ■ Bus
 ■ Car & Motorbike



Delivering net zero carbon emissions

How important is behavioural change in meeting the target (%)

- Low-carbon technologies
- Low-carbon technologies and behavioural change
- Behavioural change



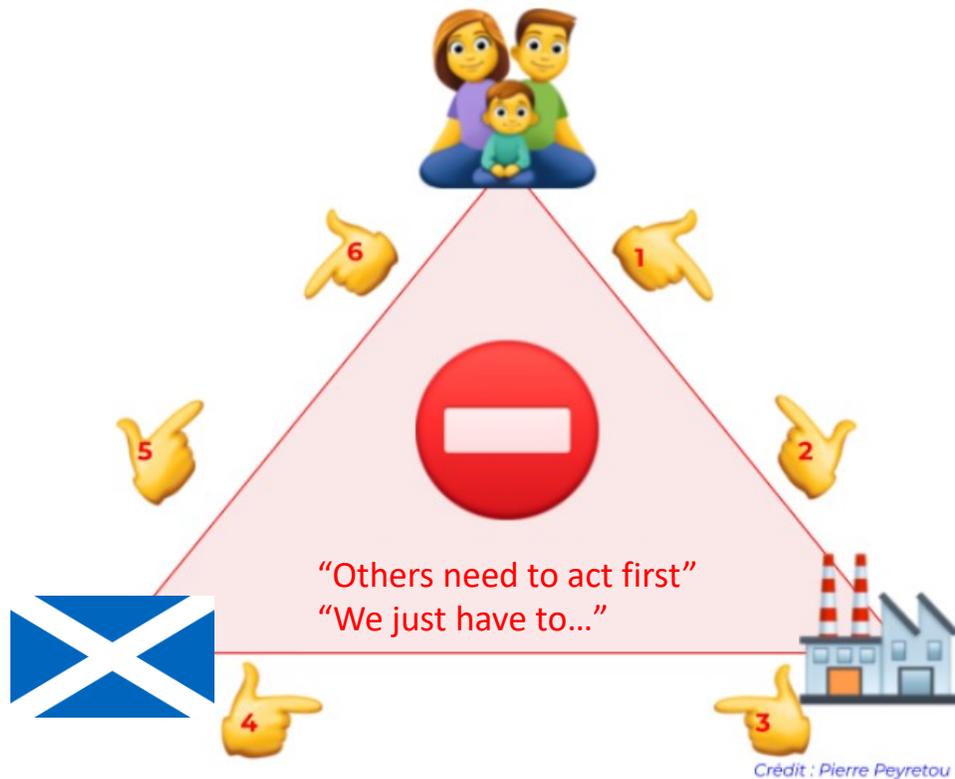
Source: Committee on Climate Change

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Role of behaviour change in meeting the Net Zero target

- To get to net zero:
 - **16%** of the emissions cuts will come from behaviour change (flying and drying less, eating less meat...)
 - **43%** will come from a combination of technology and behaviour change (residents effectively taking up clean technology and using it efficiently, eg. Reasonable home heating)
- **Behaviour change** only is not sufficient but still **essential**

We need to overcome the “inaction triangle”



- 1) “Industries need to propose low carbon solutions”
- 2) “Consumers need to send a clear message through their purchases”
- 3) “The Government needs to change the rules of the game (funding, regulation...)”
- 4) “Large businesses have more financial resources to start the change”
- 5) “We need to feel that decisions are backed by citizens”
- 6) “The Government needs to act first”

→ Shifting the responsibility to others delays action.
We all need to act hand in hand!

Supporting Citizen and Community Power

Communication and information

Engagement and Consultation

Permissive local government context (planning, place management, regulations)

Long term dialogue to build consent for change

Support for civil society and social action