



Horsham
District
Council

Update on the Councils Carbon Reduction Programme

Overview and Scrutiny 6th June 2022

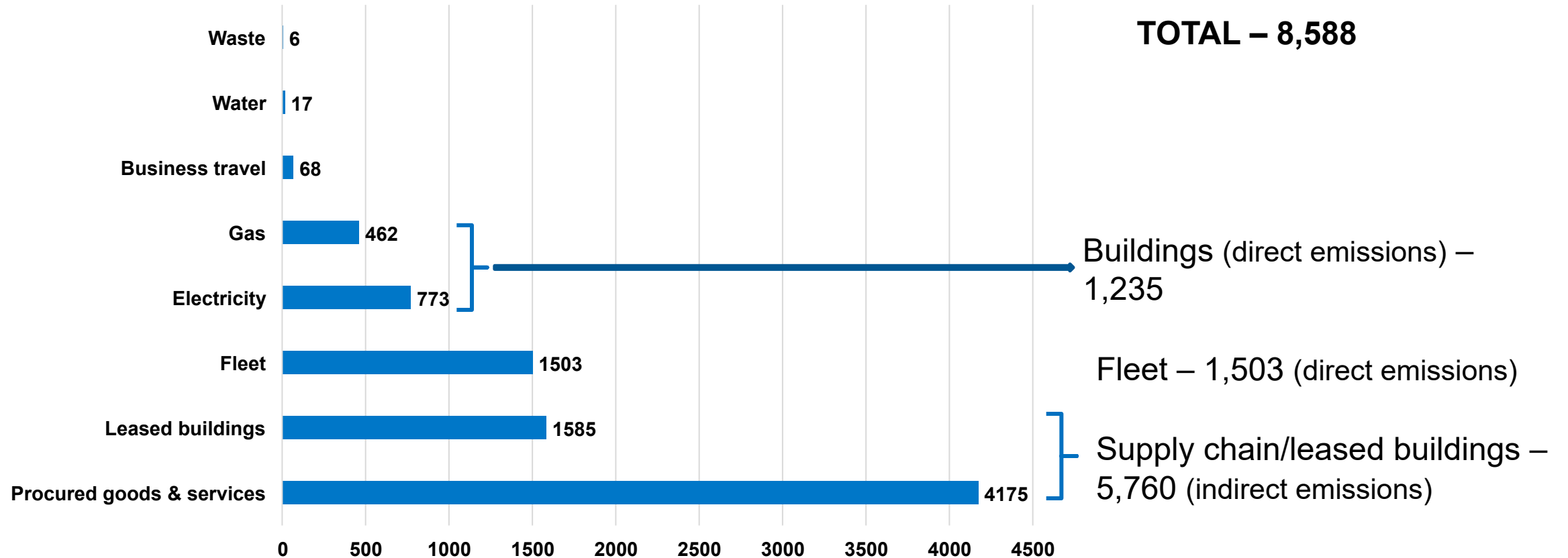
HDC's carbon neutral targets

- Aspire to reach carbon neutrality for the emissions that are more directly within the Councils control by 2030 (from petrol, diesel, gas & electricity)
- For the Councils indirect carbon emissions to be carbon neutral by 2050 (from supply chain & leased buildings, also water, waste, business mileage & commuting)

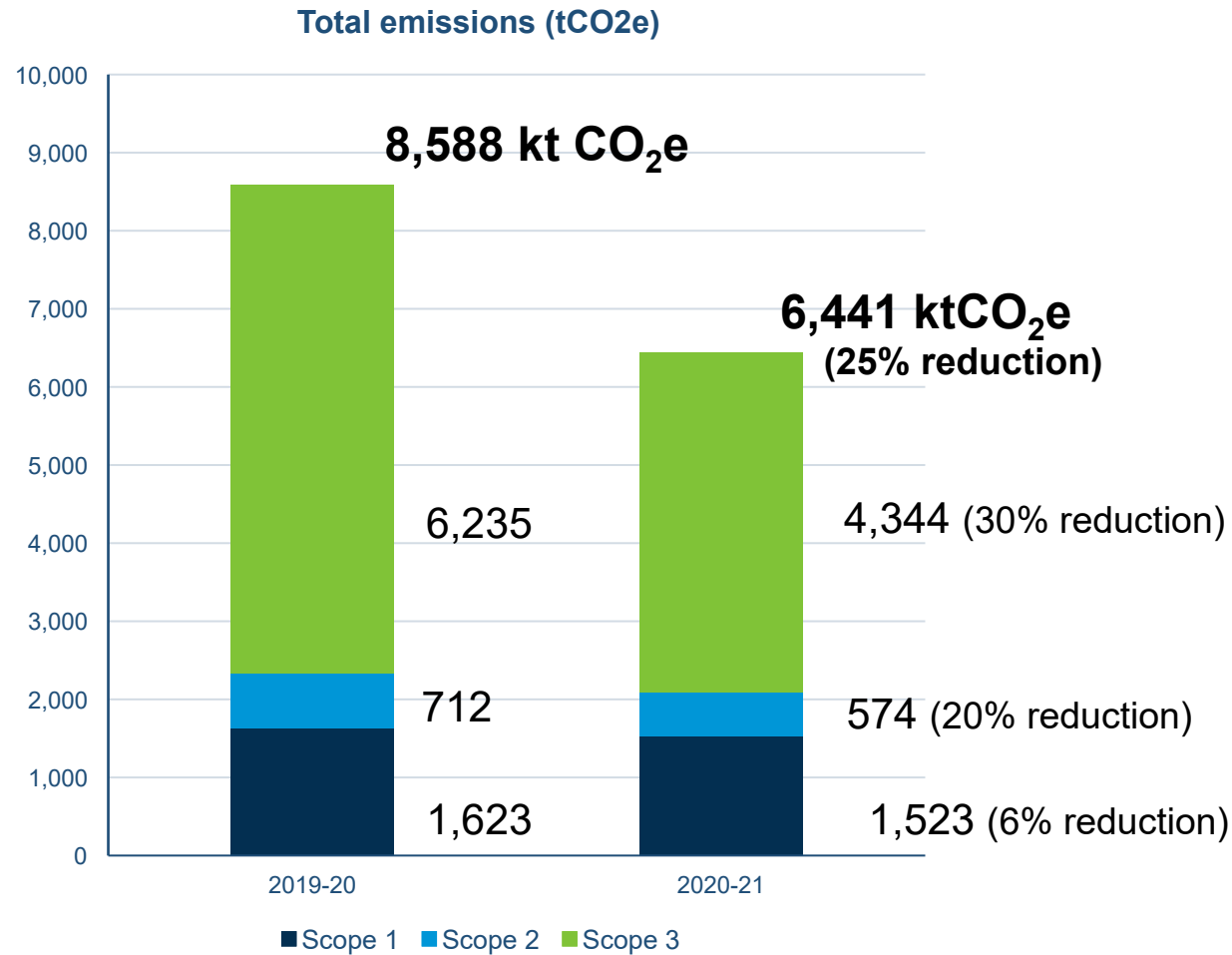


HDC Carbon Emissions

Carbon emissions by source (tCO₂e) - 2019/20



HDC Carbon Emissions



Scope 3 - Contracts
- Leased Buildings
- Water
- Waste
- Business travel

Scope 2 - Electricity

Scope 1 - Gas
- Petrol
- Diesel

Horsham District Council emissions

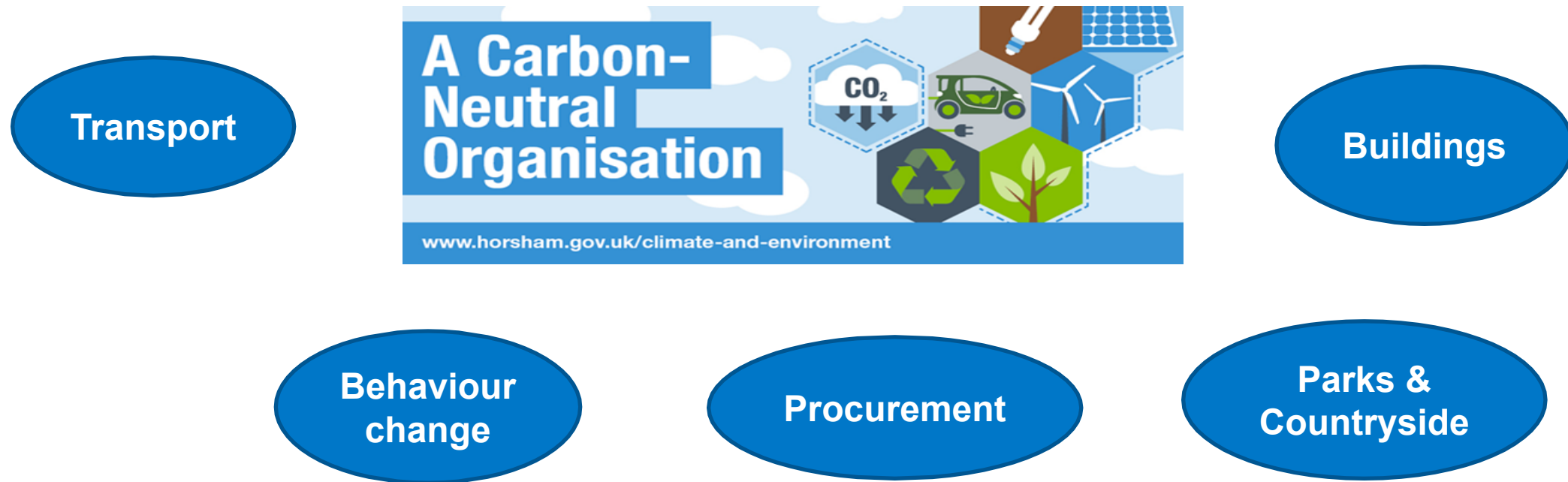
Main changes 19/20 to 20/21

- Reduction in emissions scope 3 mostly due to reduction from the supply chain;
 - two construction projects finished
 - Reduction in business mileage of 50% (though this only accounts for a small proportion of scope 3)
 - Reduction in commuting due to lockdowns /home working approximately 300 tCO₂e (2019/20)
- Reduction in electricity use (scope 2) was principally due to the pandemic;
 - large reductions from Parkside and The Capitol Theatre
- Reductions in scope 1 (gas, petrol and diesel);
 - Gas use fell in some buildings mostly due to the pandemic e.g. reductions from The Capitol, the former Ambulance Station (used by HAODS)
 - Petrol/diesel emissions small reduction in fuel used

Carbon reduction action plans

Short term action plan 2020-2022

Three-year action plan April 2022 to end March 2025



Underlying principles

- Low hanging fruit e.g. LED lighting, HVO fuel
- Financial prudence e.g. payback from LED lighting
- Invest at the right time; cost of energy & carbon
- Proven technology e.g. fleet replacement; EV for smaller vans & cars but not large highway sweepers
- Well researched projects e.g. trial zero carbon refuse vehicles
- Lessons learnt; own projects and other Councils
- Partnership working e.g. supply chain, refuse vehicle replacement
- Adaptable; take advantage of opportunities e.g. grant funding (St Peter's Hall)

Short term action plan - outcomes

Behaviour change/awareness raising

- **Staff communication plan & training** +
- **Sustainable transport for business & commuting** ▬

Key

- + completed
- ▬ in progress

- mileage reduced due to hybrid working; could be 150 tCO₂e with 50:50 working
- analysis of business travel being undertaken (50% reduction during 20/21)

Transport

- **Route optimisation for refuse vehicles**; no significant savings +
- **Driver training**; included in existing training +
- **Trial electric refuse vehicle** +
- **Fleet cars/vans end of life replacement with low emission vehicles** +
 - replacement vehicle programme agreed
 - **HVO interim step; reduces carbon emissions by up to 90%**
 - Review by consultant to electrify the fleet & infrastructure required at Depot

Short term action plan - outcomes

Property

- **Audit of main buildings for retrofitting** +
 - The Capitol; energy efficiency savings, low carbon heating & stage lighting survey
 - Houses, flats and community/countryside and leisure buildings
- **External lighting** +
 - LED lighting installed in The Forum and Swan Walk car parks
 - high level calculations for switching to LED & dimming controls in surface car parks & street lighting

Additional action

- Remodelled & reduced carbon emissions St Peter's Hall/RAFA Club; part paid for by Government grant
 - From EPC E & D to EPC B; save 19 tCO₂e per annum
 - Lessons learnt
-

Short term action plan - outcomes

Procurement

- Introduce a **sustainable procurement charter** – approved July 2021 
- **Agree method to improve supplier data and reporting** - complex 

Parks & Countryside

- **Map offsetting opportunities via habitat restoration** 
- **Develop an offsetting strategy** 
 - work commenced with a consultant & other Councils to develop a bespoke methodology for Local Authorities to offset their emissions & accelerate decarbonisation
- **Tree management plan** 
 - draft consultant report received; links to offsetting

Short term action plan

Outcomes

- Most actions delivered ahead of time; all commenced
- Start to embed knowledge
- Lessons learnt
- Foundations for future actions
- Immediate carbon savings

Potential carbon saving (to be confirmed)

- 1,200 tCO₂e = 13% of overall emissions & 45% of direct emissions
- Mostly related to the switch to HVO fuel & some from reduction in business mileage

Draft three-year plan (April 2022 to March 2025)

Overview

- Approved by Cabinet on 24th March 2022
- Build on the short term action plan
- Roll over the few actions not completed from short-term action plan
- Continue to embed carbon reductions throughout the organisation
- Actions for the operational buildings & fleet
- Start to tackle the indirect emissions; 2050 target
- Six month review and update = plan will evolve; based on research, learning & new opportunities

Full details of the action plan can be found in the Cabinet [paper](#)

Draft three-year plan (April 2022 to March 2025)

Behaviour change

- More training and communication (use of case studies)

Transport

- Start electrify the fleet (9 vehicles); any replacements consider EV options
- Annual review; identify vehicles no longer needed (4 to date)
- Continue research refuse vehicles & options for food waste vehicles

Property (direct emissions)

- Retrofit minimum one leisure/community building per annum
- Works to the Capital; start with stage lighting
- LED in car parks/Horsham Park
- Blocks of flats – determine approach once audit report received

Draft three-year plan (April 2022 to March 2025)

Property (indirect emissions)

- Retrofit all houses (10)
- Leased buildings; retrofit programme prioritises least energy efficient & when lease due for renewal
- Leisure centre; discuss energy saving & decarbonisation measures with contractor (new contract 2027)
- Opportunities to improve water efficiency and energy diversification

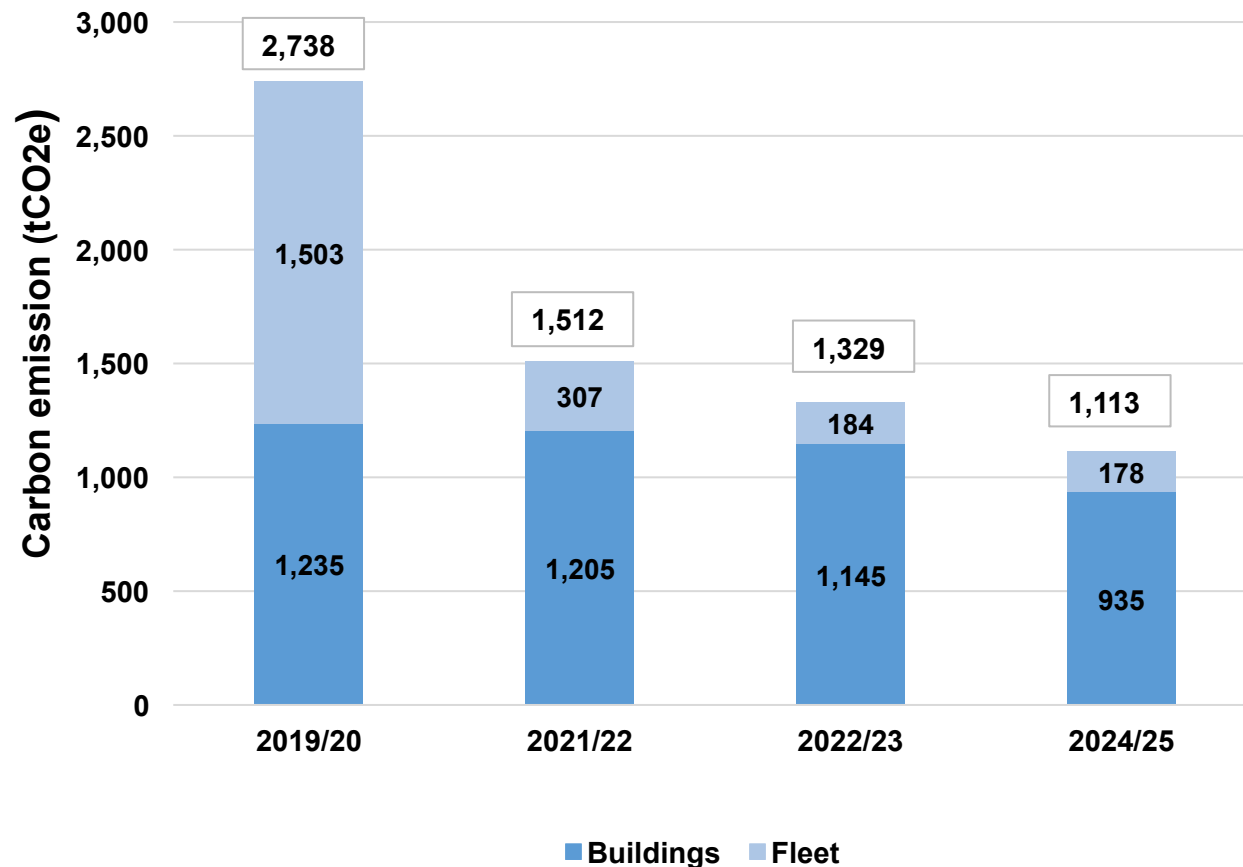
Procurement

- Work with suppliers with largest part of carbon footprint to obtain data and reduce emissions
- New approach to data gathering

Parks and Countryside

- Offsetting strategy (including natural solutions, such as tree planting)
- Develop a methodology in partnership with consultant/other Councils

Potential carbon reduction – direct emissions



Target to carbon neutral
by 2030

Potential 400 tCO₂e reduction during 3 year plan

Maximum 59% reduction from baseline

- approx. 88% reduction for fleet (from baseline)
- approx. 25% reduction for buildings (from baseline)
- **Parkside = approx. 280 tCO₂e**

2019/20 – baseline year

2021/22 – end short term action plan

2022/23 – end year one of 3 year action plan

2024/25 – end of 3 year action plan

Potential carbon reduction – indirect emissions

Changes from baseline to end of short-term action plan

Baseline = 5,800 tCO₂e (2019/20)

- Reduced by 1,900 tCO₂e (33%) in 2020/21; two construction contracts finished & reduction in business miles
- Changes after short-term action plan – to be confirmed but largely dependant on changes to contracts

Changes after three-year action plan

- Non-operational buildings - houses retrofitted; 24 tCO₂e
- Leased buildings; 265 tCO₂e (maximum)
- Change to procured good and services; unknown

**Target to carbon neutral
by 2050**

Year one actions in the budget for 22/23

Capital

- £300k additional cost for nine replacement vehicles with battery electric rather than internal combustion engine vehicles
- £100k infrastructure for electric vehicles
- £205k replacement LED lighting at the Capitol
- £150k retrofitting three houses
- £55k energy efficiency upgrades to Park Barn and the Granary
- £30k LED lighting in two rural car parks
- £10k Blatchford industrial estate energy review

Revenue

- £65k for two year environment support post and consultancy for Property and Facilities
- £10k for training (from environment budget)

Year two and three budget

- Vehicle replacement programme in above costs
- Houses in year 2 &3 in above figure
- The Capitol - £747k required just for decarbonisation works (minus potential £456k grant & energy savings)

Next steps

- Collate and analyse Council's carbon data for 2021/22
- Project team meet regularly – chaired by Director of Community Services
Six month review – amend &/or update actions
- Six month report – progress and outcome of carbon analysis

QUESTIONS

