

Public Document Pack



Helen Barrington

Director of Legal Services

County Hall

Matlock

Derbyshire

DE4 3AG

Direct Dial 01629 81538394

For further information contact: Juliette Normington

Juliette.Normington@derbyshire.gov.uk

PUBLIC

To: Members of Improvement and Scrutiny Committee – Climate Change, Biodiversity and Carbon Reduction

Friday, 18 November 2022

Dear Councillor

Please attend a meeting of the **Improvement and Scrutiny Committee – Climate Change, Biodiversity and Carbon Reduction** to be held at **2.00 pm** on **Monday, 28 November 2022** in the **Council Chamber, County Hall, Matlock**; the agenda for which is set out below.

Yours faithfully

A handwritten signature in black ink that reads 'Helen E. Barrington'.

Helen Barrington

Director of Legal Services

A G E N D A

PART I - NON-EXEMPT ITEMS

1. Apologies for absence
To receive apologies for absence (if any)
2. Declarations of Interest
To receive Declarations of Interest (if any)
3. Minutes of Previous Meeting (Pages 1 - 4)

To confirm the non-exempt minutes of the Improvement and Scrutiny - Climate Change, Biodiversity and Carbon Reduction meeting held on 10 October 2022.

4. Public Questions (Pages 5 - 6)

30 minutes maximum in total for this item. Questions may be submitted to be answered by the Scrutiny Committee or Council officers who are attending the meeting as witnesses, on any item that is within the scope of the Committee. Please see the procedure below for the submission of questions.

5. Climate Change Strategy: Annual Review of Progress (Pages 7 - 86)

6. Vision Derbyshire Climate Change Action Plan (Pages 87 - 108)

7. The Council's Role in Decarbonising Derbyshire's Housing (Pages 109 - 116)

8. Work Programme (Pages 117 - 118)

PUBLIC

MINUTES of a meeting of **IMPROVEMENT AND SCRUTINY COMMITTEE – CLIMATE CHANGE, BIODIVERSITY AND CARBON REDUCTION** held on Monday, 10 October 2022 at County Hall, Matlock, DE4 3AG.

PRESENT

Councillor W Major (in the Chair)

Councillors S Bull, J Dixon, M Ford, A Hayes, T Kemp and G Kinsella.

Apologies for absence were submitted for Councillors R Redfern, B Bingham, A Clarke and D Taylor.

Officers present: David Beard (Head of Projects), Rupert Casey (Assistant Director - Climate Change and Environment), Tom French (Ecologist - Place), Juliette Normington (Democratic Services Officer), Janet Scholes (Assistant Director - Asset Management), Caroline Toplis (Programme Manager - Climate Change) and Susan White (Project Officer - Place).

31/22 DECLARATIONS OF INTEREST

There were no Declarations of Interest.

32/22 MINUTES OF PREVIOUS MEETING

RESOLVED that the minutes of the meeting of the Improvement and Scrutiny Committee – Climate Change, Biodiversity and Carbon Reduction held on 25 July 2022 be confirmed as a correct record and signed by the Chairman.

33/22 PUBLIC QUESTIONS

There were no public questions.

34/22 PROGRESS REPORT FOR PROPERTY DE-CARBONISATION

David Beard, Head of Projects introduced the report, which had been circulated in advance of the meeting, and presented progress on the plans to decarbonise the Council's waste and achieve Net Zero by 2032 or sooner. The report was accompanied by a presentation which detailed the strategic approach around corporate property and investment in a sustainable future.

Particular emphasis was given on how associated carbon emissions

needed to be reduced and residual energy be offset by appropriate measures, including generating energy from renewables. An example of this was solar farms and a feasibility review of 15 sites for potential development as solar farms had been undertaken. A site at Williamthorpe offered the first potential development opportunity and a bid for £3.75m of capital funding had been submitted. A report would be submitted for Council consideration and potential approval.

A number of questions were asked by Committee members around asset disposal, efficiency and timescales, with a particular request to see more ambition in the targets for the reduction of emissions.

RESOLVED to:

1. Endorse the proposals outlined in the report;
2. Support the proposed development of a solar farm to offset residual energy use, subject to approval of the proposed business case;
3. Support the proposal to develop a system for active energy management; and
4. To show more ambitious targets for carbon emissions in future progress reports.

35/22 CLIMATE CHANGE RISKS, RESILIENCE AND ADAPTATION

Caroline Toplis, Programme Manager – Climate Change introduced the report, which had been circulated in advance of the meeting and provided an update on the work being undertaken by the Council to understand the climate change risks facing the Council and the services it provided, as well as to understand how the Council needed to adapt and build resilience to these risks. The report was accompanied by a presentation.

The Derbyshire Climate Change Adaptation Plan developed in 2013 outlined the Council's strategy to adapt to future climate change and build resilience within its service delivery. There was a need to assess the impacts of climate change at both a local and global level which would intensify over the coming decades. A collaborative approach would accelerate action in areas where cross-border working was needed to build county-wide and regional resilience, whilst allowing individual authorities to still hold and manage their own Council and service-level risk assessments and action plans.

RESOLVED to note the work being undertaken by the Council to

understand the climate change risks facing the Council and the services it provided, as well as to understand how the Council needed to adapt and build resilience to these risks.

36/22 DERBYSHIRE ROAD VERGES PROJECT

Susan White, Project Officer introduced the report, which had been circulated in advance of the meeting and provided feedback on the Committee's working group meeting held on 30 August 2022 to consider the draft delivery plans for the Council's Road Verges Biodiversity Project (the Project), the draft Project Information Document and a draft Project Delivery Plan in advance of these being considered for approval by relevant Cabinet Members.

At an earlier meeting, the Committee agreed to form a working group to consider the Project in more detail, together with a draft Project Information Document and a draft Project Delivery Plan. The Working Group was supportive of the Project's scope and approach and gave useful feedback.

Committee members asked a number of questions. There was also discussion around the benefits of verges, standardisation around the county and consultation needs. It was agreed that further information would be brought to a future meeting.

RESOLVED to:

1. Acknowledge the feedback from the Improvement and Scrutiny Committee – Climate Change, Biodiversity and Carbon Reduction Working Group that met on the 30 August 2022; and
2. Endorse the working group feedback be used to inform the Project Information Document and a Project Delivery Plan in advance of their approval by Cabinet Members.

37/22 CLIMATE CHANGE PERFORMANCE REPORTING - 2022-2023 Q1

Caroline Toplis, Programme Manager – Climate Change introduced the report, which had been circulated in advance of the meeting and presented the Climate Change Programme Dashboard for Quarter 1 2022-2023. It provided details on performance against delivery of the Council's Climate Change Strategy: Achieving Net Zero (2021-2025) (the 'Strategy'). The report also provided assurance to the Committee on the role of the Climate Change and Environment Programme Board (CCEPB) in monitoring performance, and to assist the Committee in fulfilling its role of providing oversight and undertaking scrutiny of the

climate change programme's governance procedures and processes. The report was supported by a presentation.

A number of questions were asked by committee members and the Chairman recognised that small incremental progress was being made.

RESOLVED to note the content of the Climate Change Programme Dashboard.

38/22 WORK PROGRAMME 2022-23

Councillor Wayne Major, Chairman of the Committee introduced the report, which had been circulated in advance of the meeting, asking Committee to note the draft work programme for 2022/23 and propose possible agenda items for the remainder of the municipal year. The programme gave focus for the Committee and promoted transparency.

An updated Programme was circulated to committee members outlining necessary amendments.

RESOLVED to note the 2022/23 work programme and accept the required amendments.

The meeting finished at 3.50 pm

Procedure for Public Questions at Scrutiny Committee meetings

Members of the public who are on the Derbyshire County Council register of electors, or are Derbyshire County Council tax payers or non-domestic tax payers, may ask questions of the Improvement and Scrutiny Committees, or witnesses who are attending the meeting of the Committee. The maximum period of time for questions by the public at a Committee meeting shall be 30 minutes in total.

Order of Questions

Questions will be asked in the order they were received in accordance with the Notice of Questions requirements, except that the Chairman may group together similar questions.

Notice of Questions

A question may only be asked if notice has been given by delivering it in writing or by email to the Director of Legal Services no later than 12 noon three working days before the Committee meeting (ie 12 noon on a Wednesday when the Committee meets on the following Monday). The notice must give the name and address of the questioner and the name of the person to whom the question is to be put.

Questions may be emailed to democratic.services@derbyshire.gov.uk

Number of Questions

At any one meeting no person may submit more than one question, and no more than one such question may be asked on behalf of one organisation.

Scope of Questions

The Director of Legal Services may reject a question if it:

- Exceeds 200 words in length;
- is not about a matter for which the Committee has a responsibility, or does not affect Derbyshire;
- is defamatory, frivolous or offensive;
- is substantially the same as a question which has been put at a meeting of the Committee in the past six months; or
- requires the disclosure of confidential or exempt information.

Submitting Questions at the Meeting

Questions received by the deadline (see **Notice of Question** section above) will be shared with the respondent with the request for a written response to be provided by 5pm on the last working day before the meeting (ie 5pm on Friday before the meeting on Monday). A schedule of questions and responses will be produced and made available 30 minutes prior to the meeting (from Democratic Services Officers in the meeting room).

It will not be necessary for the questions and responses to be read out at the meeting, however, the Chairman will refer to the questions and responses and invite each questioner to put forward a supplementary question.

Supplementary Question

Anyone who has put a question to the meeting may also put one supplementary question without notice to the person who has replied to his/her original question. A supplementary question must arise directly out of the original question or the reply. The Chairman may reject a supplementary question on any of the grounds detailed in the **Scope of Questions** section above.

Written Answers

The time allocated for questions by the public at each meeting will be 30 minutes. This period may be extended at the discretion of the Chairman. Any questions not answered at the end of the time allocated for questions by the public will be answered in writing. Any question that cannot be dealt with during public question time because of the non-attendance of the person to whom it was to be put, will be dealt with by a written answer.



FOR PUBLICATION

DERBYSHIRE COUNTY COUNCIL

**IMPROVEMENT AND SCRUTINY COMMITTEE – CLIMATE CHANGE,
BIODIVERSITY AND CARBON REDUCTION**

MONDAY, 28 NOVEMBER 2022

Report of the Executive Director - Place

Climate Change Strategy: Annual Review of Progress

1. Purpose

1.1 The Derbyshire County Council Climate Change Strategy: Achieving Net Zero (2021-2025) (the “Strategy”) was approved by Cabinet on 14 October 2021 (Minute No. 166/21 refers) and published shortly thereafter. This report provides an annual summary of progress against delivery of the Strategy and the Council’s net zero targets.

1.2 The report provides a summary of:

- Relevant national and regional policy, legislation and governance changes and updates over the past 12 months that might have implications on the Council's climate change programme – see Section 2.1 and Appendix 2.
- The progress being made against the Council's net zero target of 2032, or sooner, and the County’s net zero target of 2050, and the challenges being faced to reduce emissions from Corporate Property, streetlighting, core fleet and grey fleet – see Section 2.3 to 2.13.
- The progress being made against each target and action within the Strategy – see Section 2.14 to 2.18, and Appendix 3.
- Details on other key projects, initiatives and schemes that are contributing to the Council's climate change and wider sustainability agenda and objectives – see Section 2.19 to 2.31.

- 1.3 Further annual reports will be produced in the Autumn of each year.

2. Information and Analysis

Policy, Legislation and Governance Updates

- 2.1 Since approval and publication of the Strategy in October 2021, there have been a number of changes to the national and regional economy and political environment, and also new national strategy, legislation and policy launched. This includes the publication of the Environment Act in November 2021, the publication of new Building Regulations in June 2022, the development of proposals for an East Midlands Devolution Deal, and the impact of rising energy costs and the cost-of-living pressures. These are summarised in Appendix 2.
- 2.2 While these changes and activities do not have an impact on the content of the Strategy, including the actions and targets within it, they influence the environment in which councils deliver their climate change ambitions and commitments and will therefore influence and shape delivery going forward. Furthermore, the Council, as with all organisations, is currently dealing with the consequences of increasing energy costs, and it is unlikely that this volatility is going away anytime soon. High energy costs mean that it is more important than ever for energy use to be reduced and strengthens the business case for investment in energy reduction and efficiency projects, technologies and behaviours for the Council and Derbyshire.

Progress against net zero targets – Council emissions

- 2.3 Council emissions are recorded as tonnes of carbon dioxide and equivalent greenhouse gases (CO₂e). Emissions from four sources are currently included within the Council's net zero target of 2032, or sooner, and therefore also included in annual Council emissions reporting:
- Corporate property (gas, electricity, solid fuel, oil)
 - Streetlighting (electricity)
 - Core fleet
 - Grey fleet
- 2.4 Emissions data for 2021/22 shows that total CO₂e from these four sources **fell by 64.2% from 42,965 tonnes CO₂e to 15,378 tonnes CO₂e between 2009/10 and 2021/22.**

- 2.5 Figure 1 presents emissions reductions over the past few years. Emissions targets (the dotted line) have been set using a linear trajectory to reach net zero by 2031-32, in line with the Council's current target.
- 2.6 In order to quantify the gap between these targets and current and planned activities, annual emissions projections to 2031-32 have been modelled using information on planned initiatives, anticipated changes in carbon conversion factors (influenced by national factors such as the amount of renewable energy generated) and any other influencing factors, such as an increase in homeworking. These projections are also presented in Figure 1 to 2031/32.

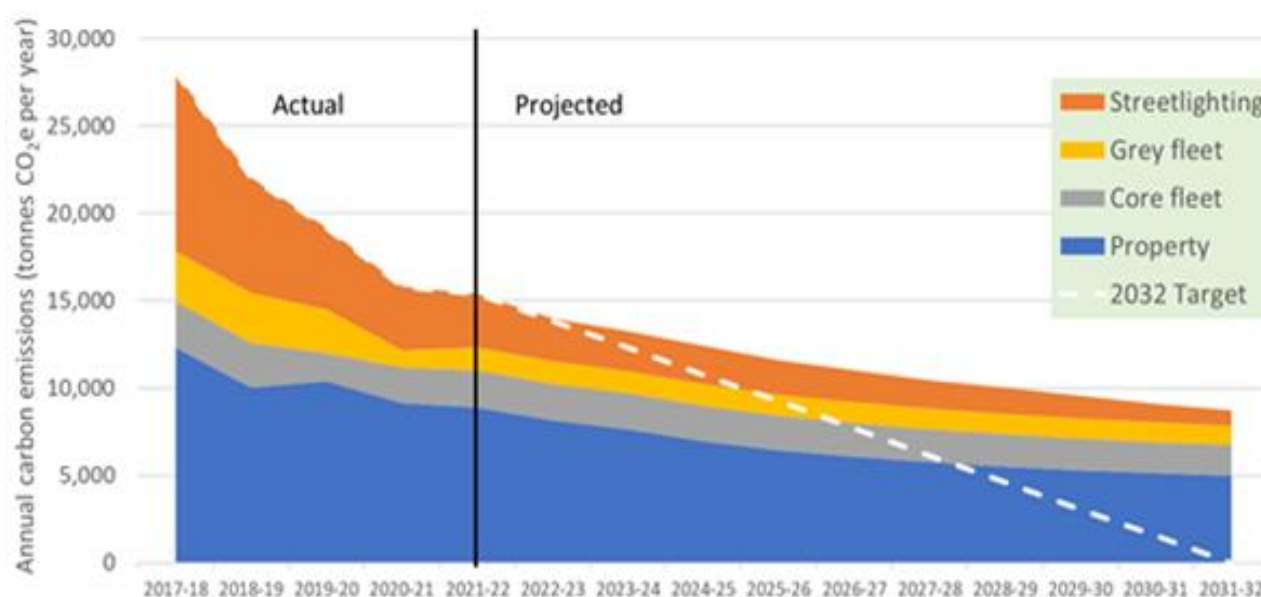


Figure 1: Council emissions reductions, targets and projections

- 2.7 Table 1 summarises the latest data for the four emissions sources reported, as well as a summary of the work being undertaken and planned to reduce emissions going forward.

Table 1: Summary of Council emissions and key activities

Emissions Source	Progress to reduce emissions
Corporate Property	<p>There has been a 43% reduction in emissions from Corporate Property since the 2009-10 baseline year.</p> <p>Provisional emissions from energy use in corporate property were 8,861 tonnes CO₂e in 2021-22, which is a 3% reduction</p>

	<p>on the previous year.</p> <p>Moving forward, there are four planned approaches to reducing emissions from corporate property:</p> <ul style="list-style-type: none"> • Property rationalisation • Energy management • Building mounted photovoltaic electricity generation • Retrofitting to reduce energy consumption
Streetlighting	<p>There has been an 83% reduction in emissions from streetlighting since the 2009-10 baseline year.</p> <p>Emissions from energy used in streetlighting and traffic lights were 3,070 tonnes CO₂e in 2021-22, which is a 16% reduction on the previous year. The emissions reduction is due to continuation of the LED replacement programme, night-dimming and part-night lighting, along with decarbonisation of the electricity grid.</p> <p>Moving forward, the streetlighting LED replacement programme is nearing completion and a small increase in energy consumption is forecast as new streetlighting is adopted and smart infrastructure (digital traffic lights) is installed. This is forecast to be offset by small increases in the efficiency of LED lights used, and the 'greening of the grid'.</p>
Core Fleet	<p>There has been an 53% reduction in emissions from core fleet since the 2009-10 baseline year.</p> <p>Emissions from core fleet use were 2,140 tonnes CO₂e in 2021-22, which is a 6% increase on the previous year. The increase in emissions is due to improvements in data collection methods and the lifting of COVID restrictions. All core fleet now has telematic data collection, giving confidence in mileage figures, a significant improvement from previous data.</p> <p>Moving forward, vehicles will continue to be replaced by the most energy efficient alternatives available which still fulfil their purpose, with the priority being to replace vehicles not meeting Clean Air Zone requirements. The installation of new charging infrastructure for electric vehicles at Council offices and depots is also being explored and will be needed to reduce emissions from core fleet to net zero.</p>
Grey Fleet	<p>There has been an 71% reduction in emissions from grey fleet since the 2009-10 baseline year.</p>

	<p>Emissions from grey fleet use were 1,307 tonnes CO₂e in 2021-22, which is a 32% increase on the previous year. The increase in emissions is due to the resumption of business travel following the lifting of Covid restrictions. However, this is still below the figure for 2019/20, likely due to continued use of virtual meetings.</p> <p>Moving forward, emissions reductions are expected through an increase in the number of staff using electric pool vehicles and the gradual increase in the efficiency of staff vehicles. Introduction of the EV salary sacrifice scheme (expected in early 2023) should assist further.</p>
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- 2.8 Despite the progress made to-date to reduce the Council's emissions, and the ongoing and planned work detailed above to reduce emissions further, modelling suggests that, for the four sources measured and reported, there will be a **potential shortfall in the necessary emissions reduction of 8,710 tonnes CO₂e by 2031/32**. Almost 60% of these residual emissions will be from the Council's corporate estate. Some of these residual emissions are likely to be offset through renewable energy generation on Council-owned buildings and land, and by carbon sequestration through activities such as tree planting.
- 2.9 However, the focus needs to remain on reducing emissions, particularly through the reduction and electrification of travel by car and light commercial vehicles and the decarbonisation of heat in buildings. The latter has significant challenges as the government has not set a net zero date for gas and the age and character of council buildings and the difficulty of retrofitting whole heating systems presents considerable constraints.
- 2.10 Further steps are now being taken to address the challenges associated with reducing emissions from corporate property. This includes endorsement by the Council's Climate Change and Environment Programme Board (CCEPB) in July 2022 for the commissioning of external specialist support to review the Council's corporate property carbon reduction policies, plans and projects, verify the work conducted to-date on developing plans to decarbonise the corporate estate, and help with the preparation of a Carbon Reduction Strategy (Corporate Property) to 2032. The formulated Carbon Reduction Strategy will inform a Carbon Reduction Programme of projects and make the case for any new resources that are identified to enable the Strategy's effective delivery.

Progress against net zero targets – Derbyshire emissions

- 2.11 The Council has a target for County-wide emissions to reach net zero by 2050. Data is provided by the Department for Business, Energy and Industrial Strategy (BEIS), which reports annually on emissions arising within each Council's geographic area. BEIS groups emissions by source, including industrial and business users, the public sector, homes, transport and agriculture, and around 99% of emissions are outside the County Council's direct control. The latest data relates to 2020 and is provided in Table 1. **There was a 9% reduction in county emissions between 2019 and 2020.** Commercial, industrial, waste and transport emissions fell by 6-18% from the previous year, attributable in part to covid lockdowns. Other sectors show smaller year-on-year decreases (3-4%).
- 2.12 **The total emissions reduction for the county between 2005 and 2020 is 34%.** For comparison, a reduction in emissions of 47% is needed by 2025 (compared to the 2005 baseline) for the county to be on-track for the 2050 net zero target.

Table 1: BEIS Emissions data for Derbyshire

Source of emissions	Emissions in 2019 (kt CO ₂ e)	Emissions in 2020 (kt CO ₂ e)	Change (kt CO ₂ e)	% change (2019 to 2020)	% change (2005 to 2020)
Industry	3,635	3,367	268	-7%	-27%
Commercial	248	225	24	-10%	-59%
Public Sector	106	101	5	-4%	-53%
Domestic	1,256	1,216	40	-3%	-40%
Transport	1,918	1,582	336	-18%	-24%
Agriculture	695	676	19	-3%	N/A – no baseline
Waste Management	320	301	19	-6%	N/A – no baseline
Total	8,179	7,468	711	-9%	-34%

- 2.13 Alongside these figures, BEIS also produces projections for national emissions up to 2040 based on current rates of change. When the Strategy was written, the most recent projections, produced in 2019, were applied to Derbyshire data to indicate the reductions likely to be achieved under 'business as usual', taking into account agreed Government policies and funding. This latest data indicates the need for ambitious, deep and widespread action across the UK and for all

sectors to achieve the UK target of net zero by 2050. BEIS is due to publish updated forecasts in Autumn 2022 and this data will be incorporated into Council reporting once the implications are understood.




Review of Strategy Targets and Actions




2.14 The Strategy sets out targets and actions split by five themes:

- Council Estate and Operations
- Low Carbon Economy
- Decarbonising the Domestic Sector
- Transport, Travel and Infrastructure
- Waste




2.15 A review of each target and priority action has been undertaken and a summary of the latest position is provided below. Each target and priority action has been allocated a RAG rating to indicate performance against expectation at this stage.




- 2.16 There are **27 targets** within the Strategy, with progress against each of these summarised below. It should be noted that, apart from the targets set out under 'Council Estate and Operations', many of the targets are outside of the direct control of the Council, with the Council instead holding an influencing, facilitating or partnership working role.




-  Good On track or complete with outcomes in line with expectations
 Review Some risk to achieving timetable and/or outcomes
 Action Unlikely to achieve timetable and/or to deliver required outcome




COUNCIL ESTATE AND OPERATIONS		
Target	Status	Summary of Progress
By 2022 all Derbyshire streetlighting will be replaced by LEDs		The LED streetlighting replacement programme is 99% complete with just under 900 streetlights left to convert, some of which will now be carried out in 2023 due to supply chain issues affecting lighting columns. In addition, there are 411 cast iron lighting columns yet to be converted to LED and are subject to funding being secured.
The Council will switch its existing electricity tariff to a 100% renewable electricity tariff by 2023 with an optional buy-in for schools.		Discussions held with the Council's energy supplier in September 2022 indicate that the procurement of a renewable energy tariff for 2023-24 will not be feasible due to energy market pressures, price rises and insufficient supply capacity. This will be monitored and revisited ahead of the 2024-25 financial year.
Reduce emissions from heating buildings to less than 700tCO ₂ e by 2032.		The Council's Asset Review process is identifying buildings for disposal, which will reduce heating demand. Retrofit projects to reduce heating demand are being developed for poorly-performing sites, based on a rigorous review process. These initial projects are expected to reduce emissions from heating Council buildings from 6,230 tCO ₂ e in 2021/22 to 4,460 tCO ₂ e by 2025. During 2023 a wider programme of works focussing on practicable actions to improve poorly-





		performing buildings will be developed. However, the scale of the challenge will require deeper action and advice is being sought on good practice and innovation from outside the Council. This will help to identify a realistically achievable target and the scale of investment needed to achieve it.
Quadruple existing microgeneration of renewable energy on Derbyshire County Council's estate to 200 MWh by 2032.	✓	28 Council-owned sites (including schools) have solar panels with an estimated annual output of 131 MWh, of which nearly 50 MWh is from non-school sites. The Asset Review has identified non-school sites with the apparent roof space to install solar PV systems of reasonable scale. The anticipated total output is 450 – 460 MWh, so the 2032 target would be met even if not all projects come to fruition. The ambition is to exceed this target and funding is currently being sought as a capital strategy bid. Further sites are likely to emerge as the Asset Review is completed.
Replace 20 Derbyshire County Council vans per year in the core fleet with zero emission vehicles (ZEVs) from 2022.	🟡	Five electric vans have been ordered this year for fleet workshops. Work is progressing to identify Council offices, depots and sites for EV charging infrastructure installation to assist with the shift to electric fleet vehicles.
Replace all Derbyshire County Council HGVs with low emission vehicles by 2032.	✓	The Council currently has 76 HGVs within its fleet. 56 of these vehicles are Clean Air Zone (CAZ) compliant. Of the 20 non-CAZ compliant vehicles, 15 new vehicles have been ordered, with 5 still to be reviewed for replacement. Therefore, the target will be met early.
Baseline all Council Scope 3 emissions by 2023 and set a target date to achieve net zero Scope 3 emissions for the Council.	✓	A review has been undertaken on the most significant sources of Scope 3 emissions and on the availability and quality of data. Data is not currently collected for all sources; some may require new clauses in contracts to make data collection compulsory. An external review of procurement data is also being considered, to identify the goods, services and contracts with the highest carbon footprint. Once the scale of the footprint is known a target net zero date will be established and this will be achieved by the end of 2023, thereby achieving the target set.
Achieve net zero emissions across all schools in Derbyshire	✓	The Council is undertaking a scoping project, which involves consultation with Derbyshire Schools and school leaders about what support and services they




by 2050, and set a more ambitious net zero target for schools within the Derbyshire County Council portfolio.		need and want to help them on their climate change journey. This will help to establish a strategic approach across the council for Climate Change Schools Support. The project is due for completion in Spring 2023 and will inform the development of appropriate targets for a net zero schools' portfolio.
LOW CARBON ECONOMY		
Target	Status	Summary of Progress
Reduce manufacturing and construction emissions by 70% by 2035 (against 1990 levels) through energy efficiency improvements and expansion of Carbon Capture, Utilisation and Storage (CCUS) technologies, and promotion of fuel switching.		National data from the Climate Change Committee, shows that emissions from manufacturing and construction have fallen by an average of 3% per year since 1990, although there are signs of a small bounce back since the Covid pandemic. There are a few CCUS schemes operating in the UK and most focus on large coastal industrial clusters. Local support to manufacturing businesses includes DE-Carbonise, the University of Nottingham's Energy for Businesses (both linked to ERDF funding), and the Green Entrepreneurs Fund.
All commercial efficiency renovations complete by 2030 to be in line with UK government's industrial and commercial energy consumption reduction target of 20%.		The Government's plans to uplift the Standard Assessment Procedure (SAP) score for non-domestic rented buildings to B by 2030 will provide impetus to improve the energy efficiency of these buildings but depend on enforcement by district and borough councils through the planning process. There is currently no such requirement for owner-occupied non-domestic buildings. The recently developed Climate Change Planning Guidance and the Council's engagement with the D2N2 (Derby, Derbyshire, Nottingham and Nottinghamshire) LEP (Local Enterprise Partnership) on commercial and industrial energy use will help to drive improvements, but achievement of the target is ultimately dependent on enforcement of the Government's SAP score legislation.
Undertake a feasibility assessment to understand the opportunities for renewable energy developments across the county and support the		This target has been achieved through: <ul style="list-style-type: none"> Feasibility assessments by APSE Energy on the technical, legal, procurement, financial and planning requirements and implications for solar PV sites on Council-owned land. A business case has been completed for a site with the most potential for immediate deployment, which will be subject

development of commercial scale developments where appropriate, by 2023.		<p>to a capital strategy bid.</p> <ul style="list-style-type: none"> The development of a Renewable Energy Spatial Study for Derbyshire (completed in September 2022) to identify the scope for medium to large scale renewable technologies, to help guide planning policy and decision making.
24,000 skilled green jobs to be created in Derbyshire by 2030 to help reach net zero emissions and enable our local economy to grow and flourish.		PWC's Green Jobs Barometer presents a regional view of the status of green jobs in Great Britain. The East Midlands is ranked 7 th of the 12 regions. 1.2% of jobs advertised in the East Midlands currently have 'green' elements, which is average for the UK but below the 6% required to meet the Government's targets for Green Growth. This data will be updated again in late 2022. The Midlands Net Zero Hub has identified specific opportunities for growth in the wind, alternative fuels and building services industries, and is developing mechanisms to support this growth. Derbyshire Economic Partnership produced the COVID-19 Recovery Strategies 2021-25 which sets out priorities to protect and grow Derbyshire's economy. Green jobs are also supported by the Green Entrepreneur Fund.
All new commercial building developments to be net zero carbon by 2030, and all commercial and industrial properties to be net zero by 2050		New commercial developments are subject to energy efficiency requirements within Building Regulations (updated in June 2022). This includes the requirement to reduce carbon emissions by 27% relative to 2013 standards and sets higher standards for thermal efficiency, lighting, heating controls, air tightness and flow temperatures. The impacts of this change will be felt slowly as projects with prior planning approval may still be built to previous building regulation standards. This is a national issue, which the Council is working to influence, but is ultimately dependent on further national legislation to enforce net zero developments.
Net zero focussed education, training courses and apprenticeships available at every academic and training institution in Derbyshire by 2028, e.g. net zero building retrofit,		Midlands Net Zero Hub is coordinating work in this area and has funded research into training gaps and growth for low carbon businesses and is also leading the region's approach to the new Home Decarbonisation Skills Training Competition. Ongoing research by University of Derby and East Midlands Chamber of Commerce is mapping the skills needs expressed by SMEs (Small Medium Enterprises) and large businesses. The Green Entrepreneurs Fund has also

renewable energy engineering, heat pump installation.		provided scholarships for individuals to improve their skills for the net zero economy.
DECARBONISING THE DOMESTIC SECTOR		
Target	Status	Summary of Progress
All new residential buildings to be zero carbon by 2025.		The Government's forthcoming Future Homes Standard will require all new homes to be zero carbon ready by 2025. Work through the Vision Derbyshire Programme 'Living and Working Sustainably' includes Climate Change Planning Guidance and an associated assessment metric. The guidance, metric, and a related report on the scale of the developable renewable energy resource in Derbyshire, are being used to identify the measures that may be implemented to reduce the climate change impact of developments. They also form an evidence base and county-wide 'net zero ambition' for use by all Derbyshire councils in the drafting of local plan policies to assist in achieving the 2025 target. The next step is to support borough and district councils to develop design guides supporting housebuilders to design homes which are in-keeping with local character whilst enabling the inclusion of net zero measures.
All existing owner occupier domestic properties EPC rating C by 2035.		Work has begun in collaboration with borough and district councils to engage with residents to understand what support they need to enable them to retrofit their own homes and to co-design and co-deliver a programme of activities which will support homeowners to make their homes fit for the future. However, the scale of the challenge is significant, with an estimated 210,000 homes in Derbyshire requiring some form of retrofitting to reach an EPC rating C. Current national fundings model and supply chain capacity do not support the scale and speed of action needed and work is beginning to explore how partners across the county can address this market failure.
All owner occupiers and renters to have access to education and training programmes to decarbonise their homes by		As part of the Council's work with the district and borough councils, community engagement activities are exploring what advice and support is needed by residents and how this might be delivered. Given the current energy crisis and increase in cost of living, any information campaign will include simple energy




2025.		advice to help people cut the cost of energy bills.
At least 20% of domestic buildings to have PV installed by 2030.		Approximately 4% of Derbyshire homes currently have rooftop PV installed. The Derbyshire Renewable Energy Study, the Climate Change Planning Guidance and assessment metric identify the scale and location of the available, developable renewable energy resources. These documents provide a strong evidence base to support local plan development policies, which in turn will support the installation of PV on existing buildings and seek to require its inclusion in future development proposals. Revisions to national Building Regulations are now needed to further facilitate the progress required. Planning guidance seeks to encourage borough and district councils to include policies in their Local Plans to support the installation of PV.
TRANSPORT, TRAVEL AND INFRASTRUCTURE		
Target	Status	Summary of Progress
All new cars and vans in the country to be zero emission vehicles by 2030.		This target aligns with the national target. In June 2022 there were 8,270 electric vehicles in Derbyshire and a further 2,900 plug-in hybrids. National data shows 34% of cars registered in 2021 were battery electric or hybrid. Electric vehicle sales increased by 76% from 2020, and early data shows an increase of 49% so far in 2022. The Council can only influence progress towards this national target and, as part of this influence, is working with partners to increase the availability of public and domestic charge-points across the County.
Deliver 1000 EV charging points for public use by the end of 2025 in collaboration with partners. Support the installation of electric vehicle chargers at 144,000 properties across Derbyshire by 2035.		At the end of July 2022 there were 274 publicly available EV charging points in Derbyshire, up from 249 in April 2022. A study has been completed into potential demand across the county and to assess the preferred locations and types of charge points needed to meet this demand. The next stage is to complete soft market testing with all known charging point operators (CPOs) invited to participate. This will be used to inform a formal procurement exercise in early 2023 to appoint a CPO (or multiple CPOs) to work towards the delivery of the overall target.









		The development and implementation of Climate Change Planning Guidance and updated Building Regulations for England (introduced in June 2022) will facilitate a growth in charging infrastructure at private properties.
Double the number of people cycling regularly as a mode of transport from 106,000 in 2016 to 212,000 by 2030.		The latest figures provided by Sports England for people who cycle at least twice a month are 98,800 for Derbyshire. This covers the period November 2020 to November 2021. This is a reduction since 2016, potentially impacted by a reduction in all forms of travel during the Covid pandemic. The Council is undertaking work to promote and facilitate an increased uptake in cycling, including Smart Rider cycle safety schemes for school children and adult cycle training, undertaking a range of feasibility studies (funded through the DfT Capability Fund) to support the D2N2's Local Cycle and Walking Infrastructure Plan, the Rural Action Derbyshire's Wheels to Work programme, updating Key Cycle Network information and seeking funding support to build capacity and develop business cases for active travel schemes in market towns.
Reverse the decline in bus travel and increase total journeys to 30 million per year by 2023 (from 21 million in 2019).		<p>Bus passenger numbers continue to recover following the dramatic reduction seen during the Covid pandemic. As of July 2022, overall patronage levels were just over 80% of pre-pandemic levels, which equates to approximately 16.8m annually.</p> <p>Delivery of the Bus Service Improvement Plan (BSIP) aims to grow bus patronage and increase bus mode share, focussing on making bus travel more affordable, environmentally sustainable, convenient and connected. However, the Council is still waiting for the allocated £47m BSIP funding to be released from the Department for Transport (DfT).</p>
Deliver 2 hydrogen re-fuelling stations in Derbyshire and up to 30 hydrogen powered buses by 2025 by working with partners in the public and private sectors.		Through the D2N2 LEP a Hydrogen Fuelled Waste project is being progressed, which will include a hydrogen refuelling point established at Toyota's HQ in Burnaston, South Derbyshire. The D2N2 Low Carbon Mobility Task Force is also looking at hydrogen fuel, vehicle and technology opportunities for the region. Derbyshire's minerals industry is also exploring hydrogen technologies.
Reduce HGV emissions in the		Statistics from the ONS show that in 2021-22 only 0.6% of all HGVs in Derbyshire








county by 50% by 2035 against baseline.		were non-diesel powered. UK data from BEIS for 2019 shows that emissions from HGVs have fallen from a high of 23.5MtCO ₂ e in 2005 to 21.4MtCO ₂ e in 2019 (a reduction of 9%), demonstrating that more action is needed. The Council is engaging with relevant groups through the D2N2 LEP to tackle this issue and also with the county's minerals product industry to explore collaborative efforts to reduce HGV emissions through a reduction in vehicle mileage and the use of more sustainable vehicles.
WASTE		
Target	Status	Summary of Progress
Reduce household waste production by 20% by 2025 against 2015 baseline.		Household waste has increased by 7.44% between 2014-15 and 2020-21. This was driven by a 3.08% increase in population and 4.23% increase in waste generated per head of population. A significant proportion of this waste growth (6.36%) occurred between 2019-20 and 2020-21 and is likely to have been caused by COVID pandemic related behaviour change. Prior to 2019 waste per capita had reduced by 1.46% since the previous year. The Council, as Waste Disposal Authority, runs campaigns and, where possible, does so in partnership with Waste Collection Authorities (WCAs). The Council uses social media messages as much as possible. Videos are currently being promoted to encourage food waste reduction and the plan is to promote more messages when resources permit. The Council is continuing to work closely with WCAs to design and deliver initiatives.
Less than 10% municipal solid waste to be sent to landfill by 2035, with 100% waste diverted by 2050.		The percentage of Local Authority Collected Municipal Solid Waste (LACMSW) sent to landfill has reduced from 27.5% to 15.8% since 2014/15. New contracts for residual waste treatment contain contractual obligations to divert residual waste from landfill. These are expected to reduce the total amount of LACMSW to 10.81% over the next two years, thereby indicating that the target will be met ahead of the target date.
No more food and garden waste sent to landfill by 2030.		Achieving this objective requires either 100% availability of, and participation in, food waste collections, or 100% diversion of residual waste from landfill into







		Energy from Waste (EfW). Based on current and planned local EfW infrastructure, the latter is not considered realistic within the target timescale. At present two of the eight district councils offer no food waste collection service and of the six that do, five offer it on a fortnightly basis co-mingled with garden waste. The Environment Act 2021 has introduced a requirement for all Waste Collection Authorities to offer a free, weekly food collection service. The draft timetable is to introduce this by 2024, subject to secondary legislation. If this legislation comes into force the target is likely to be met.
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- 2.17 There are **32 priority actions** within the Strategy, with progress on the delivery of each of these summarised below. A review of priority action performance is also carried out on a quarterly basis, and this quarterly review, which includes a commentary on any work being undertaken to address any risks to delivery, is reported each quarter to the Council's Climate Change and Environment Programme Board, the Portfolio Holder, and the Improvement and Scrutiny Committee for Climate Change, Biodiversity and Carbon Reduction. The latest Climate Change Performance Dashboard for 2022-23 Q2 is included as Appendix 4.






-  Good On track or complete with outcomes in line with expectations
-  Review Some risk to achieving timetable and/or outcomes
-  Action Unlikely to achieve timetable and/or to deliver required outcome

COUNCIL ESTATE AND OPERATIONS			
Ref	Priority Action	Target date to be completed by (end of calendar year)	Status
1	Identify land for renewable energy generation and carry out pre-feasibility assessments to identify whole life project costs.	2023	
2	Develop a design standard for future estate development which sets the requirement to develop net zero enabled buildings which can be net zero but also resilient to future climatic changes.	2023	
3	Deliver Public Sector Decarbonisation Schemes and evaluate to inform further work.	2023	
4	Identify buildings to be retained and undergo energy efficiency retrofit.	2023	
5	Roll out a Council wide electric vehicle sharing programme and electric vehicle charging points at all key Council sites, coupled with a behaviour change campaign and evaluation of working practices to facilitate a zero-emission fleet.	2025	
6	Develop a Sustainable Procurement Framework using the UK government's green procurement guidance to embed environmental requirements and Social Value into all contracts.	2022	
7	Review the commissioning principles across all teams to ensure that climate change is embedded across our services and partner working.	2022	
8	Carry out a feasibility study to identify low carbon energy procurement options.	2023	

9	Include climate change training as part of the induction process for all Elected Members and staff to strengthen knowledge of carbon emissions, climate resilience and net zero development.	2022	
LOW CARBON ECONOMY			
Ref	Action	Target date to be completed by (end of calendar year)	Status
10	Develop a Renewable Energy Strategy for the County including an energy resource assessment that identifies opportunities for renewable energy generation as well as decarbonisation of heating and energy use in homes.	2022	
11	Work with the Midlands Energy Hub, D2N2 LEP and universities and colleges to build technical and economic capabilities to deliver renewable energy and low carbon heating projects.	2025	
12	Liaise with Distribution Network Operators (DNOs) and D2N2 LEP to understand grid capacity/constraints for generation opportunities.	2025	
13	Deliver the Derbyshire Green Entrepreneurs scheme and provide additional support for reducing environmental impacts, driving innovation, and curating sustainable growth for smaller businesses.	2021	
14	Take forward the COVID Recovery Strategy to identify high carbon commercial industries and support the business community in shifting to and benefiting from the low carbon economy through collaboration with climate change and carbon experts.	2022	
15	Work with local academic institutions, trade unions, and regional Chamber of Commerce to identify geographical areas for low carbon industry growth, as well as assessing and developing the capabilities and skills of the region in supplying those industries.	2025	

16	In line with Vision Derbyshire, continue working with district and borough councils to develop a Strategic Joint Planning Framework for Derbyshire to ensure that planning measures for net zero commercial buildings are integrated into Local Plans.	2022	
DECARBONISING THE DOMESTIC SECTOR			
Ref	Action	Target date to be completed by (end of calendar year)	Status
17	Conduct an updated feasibility assessment on the low carbon heat and renewable energy opportunities within the County.	2023	
18	Use outputs of the Renewable Energy Strategy to work with partner local authorities to adopt a whole-system Local Area Energy Planning approach to increase onsite low-carbon energy generation and reduce the demand for energy.	2025	
19	Through the Vision Derbyshire process agree the approach to supporting the decarbonising of homes recognising the specific opportunities and challenges faced by renters and homeowners and reflecting the need to particularly support those in fuel poverty.	2023	
20	Planning work with the districts and boroughs to develop a Strategic Joint Planning Framework for Derbyshire to ensure achievement of minimum energy standards and net zero housing development.	2022	
21	Work with local authority and wider Government partners to develop a Regional Skills Strategy that identifies areas of upskilling within the house building and retrofit sectors, and creates investor-ready training programmes to receive support from the proposed National Skills Fund.	2023	

22	Develop an information sharing campaign to educate homeowners and renters on how to improve the energy efficiency of their property.	2023	
TRANSPORT, TRAVEL AND INFRASTRUCTURE			
Ref	Action	Target date to be completed by (end of calendar year)	Status
23	Promote integrated, and place-based development in transport planning as part of Derbyshire's COVID recovery and economic revival of market towns, to reduce emissions from first and last mile journeys and provide an economic boost to local retail and businesses.	2025	
24	Support the new Enhanced Bus Partnership arrangements being introduced in Derbyshire as part of the new National Bus Strategy. This will involve Derbyshire County Council and the bus operators investing in new service provision, improved roadside bus infrastructure, mobility as a service, integrated ticketing systems, and upgraded information availability to provide an improved public transport offering to Derbyshire residents.	2022	
25	Support the implementation of the Derbyshire Cycling Plan and the Local Cycling and Walking Infrastructure Plan.	2022	
26	Support actions for increasing the uptake of active transport to reduce emissions particularly within marginalised groups, and improve health and wellbeing for all.	2022	
27	Continue to support the above average growth of zero emissions vehicle ownership in the county by establishing public private investment partnerships to develop a network of mixed speed public charging and hydrogen infrastructure, which is affordable, consistent, accessible and user friendly for residents and visitors.	2022	

28	Evaluate the use of smart technologies and alternative fuels to reduce the emissions associated with commercial and freight transports e.g. consolidation hubs, hydrogen sub-stations, transport mobility hubs, mobility as a service etc.	2023	
WASTE			
Ref	Action	Target date to be completed by (end of calendar year)	Status
29	Identify solutions to increase the diversion of organic waste including food, soiled materials, carpets, organic textiles, etc. from landfill.	2023	
30	Undertake a cross authority behaviour change campaign to promote reduction in waste and resource consumption in the home and businesses.	2022	
31	Work with local producers and businesses to restrict the use of single use products and support the market for remanufactured goods.	2024	
32	Explore the potential for partnering with local charities and organisation to segregate and redistribute good quality products from HWRC	2025	

- 2.18 In addition to the 32 priority actions listed above, the Strategy includes a series of 120 'Long List' supplementary actions, initiatives and projects, which it is anticipated the County Council will either lead or support. As part of this annual review and following feedback from the Improvement and Scrutiny Committee for Climate Change, Biodiversity and Carbon Reduction, this Long List has been reviewed and rationalised, with the new proposed Long List of 30 actions to be delivered by the end of 2025, and a summary of progress, provided in Appendix 3. The Climate Change and Environment Programme Board endorsed this new long list on 3 November 2022, and the status and performance of this list will be reported on a quarterly basis as part of the Climate Change Performance Dashboard.

Summary of additional activities

- 2.19 This section provides an overview of the additional key projects, initiatives and schemes carried out over the past 12 months that have not been covered in the detail provided above and are contributing to the Council's climate change and wider sustainability agenda and objectives.
- 2.20 **Climate Change Team Development:** Over the past 12 months, the Council has recruited three new posts to the core Climate Change Team: two Climate Change Project Officers and a Corporate Responsibility and Sustainability Practitioner Apprentice. The Derbyshire Environmental Studies Service (DESS) has also transferred from the Council's Conservation, Heritage and Design Service to the Climate Change Team, providing an opportunity to further embed climate change and sustainability into the Council's work with schools and young people.
- 2.21 **Climate Change Training:** A comprehensive package consisting of three levels of climate change and sustainability training is now available for Council employees. A 30-minute introductory e-learning unit and a two-hour more detailed 'Climate Change: Everybody's Business' training session is available to all employees. Carbon Literacy Training provides an in-depth, eight-hour training programme which is externally accredited. Moving forwards online hour-long modules are being developed on specific climate change issues. Employees will be able to create individualised training packages to suit their needs.
- 2.22 **Single Use Plastics Policy and Action Plan:** To support the Council's Sustainable Procurement Policy (approved by Cabinet on 16 June 2022 [Minute No. 116/22 refers]), a Single Use Plastics (SUPs) Policy and Action Plan have been developed and is now being implemented. This

includes the development of a guide for staff to reduce the amount of SUPs being procured by the Council.

- 2.23 **Climate Change Risk, Adaptation and Resilience:** With Council services and infrastructure continuing to be under strain from the impact of the coronavirus pandemic and economic pressures, it is imperative that the Council understands the risks to services, infrastructure, people, and communities from the current and future impacts of climate change and puts in place plans to increase resilience. As such, a project is being delivered to understand and evaluate the risks to services within the Council and ensure any necessary measures to adapt to the risks posed are understood and implemented. This project is focusing on Council services and functions, with opportunities for collaboration with partners on a County-wide or regional approach to resilience also being explored.
- 2.24 **Climate Change Engagement:** A Climate Change Engagement Plan has been produced setting out how the Council will engage with its residents and communities to deliver relevant actions set out in the Climate Change Strategy. The Plan was approved by the Leader of the Council in October 2021. In addition, the Council continues to support and engage environmental community groups through a number of channels responding to queries and requests for support and through a climate communications service provided through membership of the Local Authority Energy Partnership.
- 2.25 **Derbyshire Natural Capital and Biodiversity Strategy:** In September 2021, the Council commissioned external specialist consultants to develop a Natural Capital and Biodiversity Strategy for Derbyshire. The Strategy will help inform investment and natural capital decision making and place-shaping by the Council, as well as the County's district and borough councils. The Strategy identifies the priority areas for the protection, restoration, and enhancement of natural capital assets to maximise the economic, social, and environmental benefits that result. The project is due for completion by the end of 2022, after which the findings will be disseminated to all project partners and wider relevant stakeholders, and a delivery programme will be established and implemented.
- 2.26 **Vision Derbyshire Climate Change Strategy and Action Plan:** A joint Vision Derbyshire Climate Change Strategy (2022-2025) has been developed that sets out what needs to be done to reduce emissions across the County to net zero by 2050, and how Derbyshire councils can work together to achieve this through a series of joint ambitions and priorities. The Strategy was endorsed by the Vision Derbyshire Joint

Committee on 4 April 2022 and approved by Cabinet on 7 April 2022 (Minute No. 92/22 refers). All eight of the County's district and borough councils have also either formally approved, supported or endorsed the Strategy.

- 2.27 **Renewable Energy Spatial Study:** In December 2021, the Council commissioned external specialist consultants to deliver a spatial renewable energy study to support the delivery of the Council's net zero ambitions and direct the development of informed and comprehensive local plan policies across the county. The Study provides the information and evidence to assist in the development of policy and decision making, ensuring that as far as possible, future development in Derbyshire takes full account of the need to contribute towards a rapid move to a net zero emissions society. The study was completed in September 2022 and is now being reviewed by the Council, as well as the district and borough councils to help strategically assess sites and applications as part of both the Local Plan and Development Management process respectively.
- 2.28 **Energy Strategic Framework:** The Council is developing a Strategic Framework for Council action to deliver net zero energy in Derbyshire. It will set out where and how the Council should act in the complex and multi-faceted net zero energy agenda and will set out a series of energy policy objectives where the Council's involvement is warranted in leading or contributing to their delivery.
- 2.29 **Achieving a Net Zero Derbyshire with the Mineral Products Industry:** The Council is working with Derbyshire's mineral products industry to identify and collaborate on the development and delivery of opportunities to achieve a net zero sector whilst maximising the economic and social value provided by the sector to the County and wider UK. Themes being explored for partnership working include alternative fuels, network capacity and constraints issues and education and skills.
- 2.30 **Decarbonising Derbyshire's Housing:** The Council is leading a project with the district and borough councils to engage with residents to co-design and co-deliver a programme of work to support homeowners to improve the energy efficiency and therefore reduce the cost of their own homes to make them fit for the future. The Vision Derbyshire Programme is providing oversight for this work. A summary of the outcomes of the initial consultation will be produced in early 2023.
- 2.31 **Derbyshire Youth Network Climate Change Action Plan:** A consultation was launched in 2022 through the Derbyshire Youth

Network seeking the views of young people on climate change and how they could take climate action. The consultation received 1,481 responses which were analysed to produce an action plan. Delivery of the action plan will create foundations and a framework to support young people to develop the knowledge, skills and confidence to take real life actions that can inspire and be replicated across the county and region.

Conclusion

- 2.32 To-date, the Council has made good progress towards its net zero target of 2032, or sooner, with a 64.2% reduction in Council emissions achieved between 2009-10 and 2021-22. However, the speed of reduction is now slowing and data modelling carried out using information on activities (those in progress and planned) suggests that there may be a shortfall in the necessary emissions reduction by 2031-32. This highlights that further effort is required to reduce the Council's emissions, particularly those emissions resulting from heating Council buildings and emissions from core and grey fleet. Supplemental work is now underway to explore how the further reductions necessary might be achieved, and to understand the resource implications of doing so.
- 2.33 Delivery of the Strategy has had a strong first year, with a significant number of targets and actions on track to meet or exceed the desired outcomes, and action being taken to address any risks to delivery of any targets and actions currently not on track. A quarterly review of performance will continue to be undertaken using the Climate Change Performance Dashboard, with the Climate Change and Environment Programme Board continuing to manage and oversee performance.

3. Consultation

- 3.1 The Strategy was approved by Cabinet on 14 October 2021 (Minute No. 166/21 refers) where it was also agreed that Cabinet would receive an annual progress report, summarising progress against delivery of the Strategy and Council's net zero targets.
- 3.2 A Climate Change Performance Dashboard is produced every quarter and presented to the Portfolio Holder and Leader of the Council, the Climate Change and Environment Programme Board, and the Improvement and Scrutiny Committee for Climate Change, Biodiversity and Carbon Reduction. This dashboard provides an update on progress on delivery of the actions within the Strategy.

- 3.3 As detailed in sections 2.23, 2.29 and 2.30, engagement activities have been undertaken with more planned to understand how the Council can work with communities to support climate action.

4. Alternative Options Considered

- 4.1 **Not to report on delivery of the Climate Change Strategy** – The Climate Change Act 2008 (as amended) commits the UK to a legally binding target to reduce greenhouse gas emissions to net zero by 2050. The Council must, therefore, play its part in reducing emissions and take action to achieve this in line with the targets set out by the UK government. If the Council did not have a Strategy and Action Plan in place and monitor and report on progress in an effective way, emissions from the Council and across the county would not reduce sufficiently to achieve the targets.

5. Implications

- 5.1 Appendix 1 sets out the relevant implications considered in the preparation of the report.

6. Background Papers

- 6.1 None identified.

7. Appendices

- 7.1 Appendix 1 – Implications.
- 7.2 Appendix 2 – Summary of policy and legislation updates since October 2021.
- 7.3 Appendix 3 – Revised Long List Actions and Performance – to be delivered by the end of 2025
- 7.4 Appendix 4 – Climate Change Performance Dashboard 2022-23, Q2

8. Recommendations

That the Committee:

- a) Notes the relevant national and regional policy, legislation and governance changes and updates over the past 12 months that might have implications on the Council's climate change

- programme.
- b) Notes the progress being made against the Council's net zero target of 2032, or sooner, and the county's net zero target of 2050, and the challenges being faced to reduce emissions from corporate property, streetlighting, core fleet and grey fleet.
 - c) Notes the progress being made against each target and action within the Strategy.
 - d) Notes the other key projects, initiatives and schemes that are contributing to the Council's climate change and wider sustainability agenda and objectives.

9. Reason for Recommendations

- 9.1 To ensure the Committee is informed of progress against delivery of the Council's Climate Change Strategy: Achieving Net Zero and the net zero targets.

Report Author:	Caroline Toplis	Contact details:	Caroline.Toplis@derbyshire.gov.uk
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Implications

Financial

- 1.1 The delivery of some of the priority areas of work within the Strategy will have financial implications for the Council. These will be considered on a project-by-project basis.
- 1.2 Following approval at Full Council on 2 February 2022, the Council's climate change programme now has confirmation of its budget for 2022-23 to 2026-27. A summary of which follows:
 - **Base Budget:** The climate change programme holds a base budget of £0.670m per year for staff costs and project development and delivery.
 - **One-Off Budget:** A budget of £0.350m per year for 2022-23 and 2023-24, a total of £0.700m, is allocated for accelerated project development and delivery. This is to be drawn down from the Earmarked Reserve Fund (see below).
 - **Earmarked Reserve Fund:** The Revenue Budget Report 2020-21 secured approval for a sum of £4m from the Business Rates Pilot to support capital borrowing to meet the requirements of changes to the vehicle fleet and approaches to help reduce emissions from buildings. This is held by Place in an Earmarked Reserve.
- 1.3 Approval for the allocation of funds from the Reserve is managed by Finance Business Partners and the Climate Change and Environment Programme Board (CCEPB), through the delegated authority of the Executive Director for Place.

Legal

- 2.1 There is no statutory obligation on Derbyshire's councils to produce a Climate Change Strategy, however, councils have the power contained in the Local Government Act 2000, Local Government & Public Involvement in Health Act 2007, Sustainable Communities Act 2007 and Localism Act 2011 to engage directly and work with other agencies in helping to tackle climate change.
- 2.2 The delivery of some of the priority areas of work within the Strategy may have legal implications. These will be considered on a project-by-project basis.

Human Resources

- 3.1 The delivery of some of the priority areas of work within the Strategy may have human resource implications. These will be considered on a project-by-project basis.

Information Technology

- 4.1 The delivery of some of the priority areas of work within the Strategy may have information technology implications. These will be considered on a project-by-project basis.

Equalities Impact

- 5.1 The delivery of some of the priority areas of work within the Strategy may have equalities impact implications. These will be considered on a project-by-project basis.

Corporate objectives and priorities for change

- 6.1 The Strategy supports the Council's ambition to be a net zero organisation by 2032, or sooner, and for the county to be net zero by 2050 and informs the action that needs to be taken to achieve these ambitions. The Strategy will also help deliver the following Council Plan priorities: Resilient, Healthy and Safe Communities; High Performing, Value for Money and Resident-Focused Services; A Prosperous and Green Derbyshire.

Other (for example, Health and Safety, Environmental, Sustainability, Property and Asset Management, Risk Management and Safeguarding)

- 7.1 The delivery of some of the priority areas of work within the Strategy may have other implications. These will be considered on a project-by-project basis.








Summary of Policy and Legislation Updates since October 2021









- 2.1 The UK Government published its **Net Zero Strategy: Build Back Greener** in October 2021, which coincided with the publication of the Council's Strategy. The Government's strategy sets out a plan for a transition to a net zero economy that will take place over the next three decades. It focuses on the establishment of a clean, reliable power system as the foundation of a productive net zero economy, with a fully decarbonised power system by 2035, subject to security of supply. Low carbon job and skills creation, as well as innovation, also forms a central part of the strategy.
- 2.2 The **Environment Act 2021** became law in November 2021, and forms the UK's new framework of environmental protection. The Environment Act gives the Secretary of State the power to set legally binding, longer-term, environmental targets lasting at least 15 years, across a variety of areas relating to the environment, including four priority areas: water, air quality, biodiversity and waste/resource efficiency. This includes new legally binding targets for one of the most harmful pollutants, fine particulate matter (PM2.5). The Act has also established an Office for Environmental Protection as a new environmental watchdog. This new body is tasked with holding the Government and other public bodies to account, and ensure that environmental laws are complied with.
- 2.3 Updated **Building Regulations for England** took effect in June 2022, primarily focused on new non-domestic buildings but also including policies for existing non-domestic buildings and new and existing housing. The regulations are early enablers for the Government's Future Homes Standard and Future Buildings Standard – planned for 2025 – for which a key part is that all new builds are capable of being net zero in terms of operational carbon when the grid decarbonises.
- 2.4 'Net Zero, Energy and Environment' is one of a series of key themes being progressed under the **East Midlands Devolution Deal** between the Government and four of the Local Authorities of the East Midlands comprising Derby, Derbyshire, Nottingham & Nottinghamshire. Through this, an ambition to adopt shared endeavours and approaches to tackling climate change across the region is clear and can build on existing ambitious strategies and work on energy, climate change adaption, waste and local nature recovery and biodiversity strategies. In recognition of this opportunity, the Government will make an investment in the East Midlands area of up to £9 million via a net








zero capital funding pot this Spending Review that will enable the East Midlands area to drive their net zero ambitions. This investment is subject to agreement of a business case from the area.







- 2.5 The rising **cost of living** is combining with existing disadvantage and vulnerability within communities to put many households at greater risk of both immediate hardship and reduced opportunity and wellbeing. Furthermore, research conducted by the County Council's Network (CCN) and the Society of County Treasurers indicates that England's 40 largest councils will increasingly be under-pressure to achieve costs savings as inflation is predicted to add over £1.5bn to costs. County authorities are expected to be particularly exposed to these rising costs because of the nature of delivering services in large rural areas. Councils must continue to support their communities and strengthen and maintain a collaborative approach to tackling the rising cost of living between partners in the private, public and voluntary sectors.



Revised Long List Actions and Performance – to be delivered by the end of 2025

COUNCIL ESTATE AND OPERATIONS		
Ref	Action	Status
LL1	Decarbonising Schools: Undertake a baselining exercise with all schools in Derbyshire to identify their existing emissions and ongoing work to reduce energy consumption. For all schools within the Derbyshire County Council Portfolio agree a target date to reduce emissions to net zero, between 2030 and 2040.	
LL2	Policy Review: Review all relevant existing Derbyshire County Council policies and update, where required, to ensure they consider carbon reduction and climate resilience and do not contradict our Climate Change Strategy and direction.	
LL3	Renewable Energy Generation: Maximise opportunities for renewable energy generation on Council property and work with partners, such as Midlands Net Zero Hub, to deliver collaborative projects and access funding streams.	
LL4	Efficient Buildings: Install lighting and heating controls, as well as water efficiency measures, across the estate to improve energy and water efficiency and continue to embrace the use of new technology to create a more agile, flexible, and mobile workforce.	
LL5	Behaviour Change (Internal): Undertake awareness raising and behaviour change campaigns to ensure all staff know how to make energy efficient choices in the home and workplace. Include climate-conscious behaviour into Job Descriptions, Employment Terms and Conditions and as part of the staff annual performance review.	
LL6	Behaviour Change (External): Provide ongoing up-to-date information on activities to reduce energy use and on taking wider action to tackle climate change on the Derbyshire County Council website. Work with communities to co-design and co-deliver specific actions within the Climate Change Strategy.	
LL7	Council Fleet Vehicles: Review core fleet requirements in each department to understand the current and potential future use of the core and grey fleet considering company EVs; hire vehicles; inter-departmental sharing of core vehicles, use of Vehicle Management System (VMS). Deliver a programme to replace Derbyshire County	

	Council's HGVs in 2024 with Clean Air Zone (CAZ) compliant vehicles combined with use of satellite navigation, awareness of driver style and use of a VMS. Use the collective purchasing power of Derbyshire's councils when purchasing fleet vehicles.	
LL8	Scope 3 emissions: Map the Council's level of influence against different levels of emitters to prioritise and focus action and estimate emissions from 'Working at home'.	
LL9	Project Scoping and Impact Assessments: Carry out Climate Impact Assessments on all Derbyshire County Council infrastructure projects from 2022 identifying the whole carbon lifecycle and resilience to climate change. Ensure low carbon and resilient options are embedded in scope of works for new developments for client partners.	
LL10	Procurement: Consider opportunities for a joint procurement approach across local authorities in Derbyshire to purchase low carbon services including electric vehicle charging infrastructure and building upgrades.	
LOW CARBON ECONOMY		
Ref	Action	Status
LL11	Low Carbon Heat: Work with industrial partners to identify opportunities for waste heat recovery to serve low-carbon heating schemes, and to explore opportunities for the electrification of heat and heat pump technologies in non-residential buildings.	
LL12	Planning: Work with local authority partners and developers to better understand the integration of whole life carbon assessment into non-residential new developments, and to identify focus areas for energy efficiency improvements and renewable energy generation installations in the county's existing non-residential building stock.	
LL13	Minerals Industry: Work with the minerals industry to identify partnership projects for the transition to a low carbon sector.	
LL14	Community Energy: Work with community groups to develop community energy schemes and help secure funding from the Local Enterprise Partnership (LEP) for local energy projects.	
LL15	Grid Capacity and Demand: Work with the DNOs and other partners to identify priority zones for low carbon development, to support the energy transition, and to reduce additional stresses placed on power networks due to increased electrification (transport, heat etc.) and	

	increased penetration of renewables.	
LL16	Business Support: Continue investing in the Derbyshire Green Entrepreneurs Fund, explore other mechanisms (such as a revolving fund) and secure external funding where relevant, to support Derbyshire businesses in improving the carbon and energy consumption in operational performance and to drive innovation and curate sustainable growth.	
LL17	Skills and Training: Develop a comprehensive apprentice training programme developed in conjunction with university partners, kick-started by placing requirements on directly commissioned works.	
DECARBONISING THE DOMESTIC SECTOR		
Ref	Action	Status
LL18	Retrofitting Project Pipeline: Work with the district and borough councils, Midlands Net Zero Hub and the D2N2 LEP to identify a programme of 'shovel ready' projects and partnership frameworks for retrofitting domestic properties and to enable a more rapid, collaborative and timely response to funding opportunities.	
LL19	Planning: Continue to work with the borough and district councils and developers to explore increasing requirements within Local Plans and wider planning policies for zero carbon homes and so that new housing developments are resilient a changing climate.	
LL20	Domestic Retrofit Skills, Employment and Training: Carry out analysis to understand the capacity of the construction and retrofit sectors to retrofit all homes across Derbyshire to EPC rating C or above by 2035. Work with local authority and academic partners, as well as industry, to continue to strengthen and develop local skills, capacity, frameworks and expertise in domestic energy efficiency retrofitting, and develop a Regional Energy Skills Strategy to inform investor-ready programmes to receive support from the National Skills Fund.	
LL21	Funding Support: Support residents in responding quickly to government financial support for home improvement and explore the feasibility of a council-managed local green homes fund to provide access to homeowners for financial support with energy efficiency improvements, as well as passing on savings from bulk retrofit contracts.	
TRANSPORT, TRAVEL AND INFRASTRUCTURE		
Ref	Action	Status
LL22	Active Travel: Develop partnerships and seek funding for	

	training and support to increase number of young people who can cycle confidently and regularly. Ensure cycle proofing is embedded in design of future infrastructure developments and increase the use of active travel (cycling and walking) for first and last mile transport use by utilising a more connected approach across different service offerings.	
LL23	Bus Services and Infrastructure: Through delivery of the Bus Service Improvement Plan and working with local and regional partners, such as Midlands Connect, work collaboratively to: <ul style="list-style-type: none"> • Introduce measures to present the bus services in Derbyshire as a singular coordinated network. • Install electronic real time information signs and LED lighting at all key bus stops and interchanges. • Implement targeted punctuality improvement infrastructure measures to make bus journeys quicker and more reliable. • Continue investment in new buses to improve vehicle emissions standards and introduce low carbon buses such as electric or hydrogen. 	
LL24	Planning: Reinvigorate travel planning and behavioural change activities linked to new housing and commercial developments and ensure public transport routes and gateways are developed to access rural areas, including the Peak District National Park.	
LL25	Taxi Operators: Support taxi operators in embracing alternative technologies and infrastructure by supporting applications for grant funding and expanding the public charging network.	
LL26	Technology: Track developments in transport technology to ensure rapid deployment of low carbon solutions.	
LL27	EV Charging Infrastructure: Work with partners to accelerate the shift to electric vehicles through improving charging point infrastructure and promoting the uptake in these vehicles, with a particular focus on facilitating a growth in charging infrastructure in areas where there is little or no commercial viability (such as on-street charging).	
WASTE		
Ref	Action	Status
LL28	Strategy Development and Implementation: In the development of the new Derbyshire Waste Strategy integrate circular economy principles and set ambitious targets for increased reuse and recycling.	




LL29	Council Waste and Resources: Establish task groups within each Department to promote good waste reduction, recycling and recovery practices within service delivery and contracting activities. Produce six monthly reports on waste produced across the estate and make this available to all staff to enable better understand of the impact of waste reduction measures.	
LL30	Partnership Working: Continue to work with local, regional and national partners on improving levels of waste diversion through effective public engagement and behaviour change. Work with local businesses to explore embedding circular economy practices within operations and explore opportunities for collaboration with research groups and universities.	

Climate Change Programme Dashboard 2022-23, Q2

Overview

Strategy Theme	Good	Review	Action
Council Estate and Operations	6	2	1
Low Carbon Economy	2	5	0
Decarbonising the Domestic Sector	3	3	0
Transport, Travel and Infrastructure	4	2	0
Waste	2	2	0
Total	17	14	1

Delivery Theme	Theme Lead	Good	Review	Action
Council Property and Estate	David Beard	3	1	1
Procurement	Stuart Etchells	2	0	0
Highways	Neill Bennett	0	0	0
Fleet	Richard Bright	0	1	0
Schools	TBC	0	0	0
External Transport and Travel	TBC	4	2	0
Low Carbon Economy	Paul Patterson	1	4	0
Planning	David Arnold	2	3	0
Internal Engagement and Training	Sally Pearson	1	0	0
External Engagement	Julia Odams	0	0	0
Natural Capital	Adam Lathbury	0	0	0
Waste	Ruth Robinson	2	2	0
Climate Change Team	Caroline Toplis	2	1	0
Total		17	14	1

-  Good On track or complete with outcomes in line with expectations
-  Review Some risk to achieving timetable and/or outcomes
-  Action Unlikely to achieve timetable and/or to deliver required outcome

Summary

Overall performance of the 32 priority actions within the Derbyshire County Council Climate Change Strategy: Achieving Net Zero (2021-2025) is presented in the table below.

For this quarter, 17 priority actions (53%) have been allocated a **Good** rating, meaning that they are on track or complete with outcomes in line with expectations.

14 priority actions (44%) have been allocated a **Review** rating, meaning that there is some risk to achieving timetable and/or outcomes.

One priority action (3%) has been allocated an **Action** rating, meaning that, at present, it is unlikely to achieve timetable and/or to deliver required outcome. This action falls under the Council Operations and Estate theme.

- (Ref 3) Deliver Public Sector Decarbonisation Schemes and evaluate to inform further work.

Work is underway to bring this action back on track, which will need to be clearly focused and monitored.

Of those actions allocated a Review rating, the actions that have the potentially biggest negative impact on achieving net zero targets if not achieved require particular attention to ensure they are progressed sufficiently, these being:

Council Estate and Operations:

- (Ref 5) Roll out a Council wide electric vehicle sharing programme and electric vehicle charging points at all key Council sites, coupled with a behaviour change campaign and evaluation of working practices to facilitate a zero-emission fleet.

Low Carbon Economy:

- (Ref 15) Work with local academic institutions, trade unions, and regional Chamber of Commerce to identify geographical areas for low carbon industry growth, as well as assessing and develop the capabilities and skills of the region in supplying those industries.
- (Ref 16) In line with Vision Derbyshire, continue working with Borough District councils to develop a Strategic Joint Planning Framework for Derbyshire to ensure that planning measures for net zero commercial buildings are integrated into Local Plans.

Decarbonising the Domestic Sector:



- (Ref 17) Conduct an updated feasibility assessment on the low carbon heat and renewable energy opportunities within the county.
- (Ref 21) Work with local authority and wider government partners to develop a Regional Skills Strategy that identify areas of upskilling within the house building and retrofit sectors, and creates investor-ready training programmes to receive support from the proposed National Skills Fund.


Transport, Travel and Infrastructure:


- (Ref 24) Support the new Enhanced Bus Partnership arrangements being introduced in Derbyshire as part of the new National Bus Strategy. This will involve Derbyshire County Council and the bus operators investing in new service provision, improved roadside bus infrastructure, mobility as a service, integrated ticketing systems, and upgraded information availability to provide an improved public transport offering to Derbyshire residents.


Brief details on mitigation measures for these actions are set out in the table below, with close monitoring of progress going forward recommended.



PRIORITY ACTIONS - Summary



Ref	Priority Action	Lead Theme	Target date for completion	Success Measure	Status (and change since previous Q)	Impact on net zero targets if not achieved	Summary of progress
Council Estate and Operations							
1	Identify land for renewable energy generation and carry out pre-feasibility assessments to identify whole life project costs.	Property and Estate	2023	At least one feasibility study conducted per year leading to a proposal for capital work.	  last Q)	High	<p>GOOD: On track or complete with outcomes in line with expectations</p> <p>Corporate Property has developed a draft Net Zero Strategy for the Council's corporate estate, which identifies the requirement for major projects for renewable energy generation. A review of opportunities for the development of solar farms has been completed with consultant input from APSE Energy.</p> <p>15 sites have been identified and reviewed for ground mounted solar PV, with eight sites meriting further consideration. Of these eight, a site at Williamthorpe has been given priority status for development as a solar farm with an estimated annual output of power equivalent to 3.25 million kWh, which is equivalent to the annual energy use at the Council's seven highest energy using buildings in the corporate estate. This site was previously granted outline planning permission for a ground mounted solar PV scheme. The project risk is therefore relatively low.</p> <p>A capital strategy bid has been submitted and a business case has been submitted to Finance. The project now awaits approval and funding. Other sites offer potential for future solar farm development subject to the availability of grid connection in the future. The availability of capacity within the grid is being monitored.</p>


2	Develop a design standard for future estate development which sets the requirement to develop net zero enabled buildings which can be net zero but also resilient to future climatic changes.	Property and Estate	2023	Design standards developed and approved, and incorporated into formal council policy. Design standards applied on all relevant projects once approved.	 (no change)	High	<p>GOOD: On track or complete with outcomes in line with expectations</p> <p>Corporate Property has now completed the development of proposed design standards are all new build and refurbishment projects. This work has been endorsed by the Climate Change and Environment Programme Board and is ready for Cabinet approval and then adoption.</p>
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3	Deliver Public Sector Decarbonisation Schemes and evaluate to inform further work.	Property and Estate	2023	Development of a Heat Decarbonisation Plan incorporating the poorest performing buildings to allow a growing programme of work for PSDS and other funding streams.	 (no change)	Moderate	<p>ACTION: Unlikely to achieve timetable and/or to deliver required outcome. This is due to difficulties experienced in installing the planned low carbon heat technologies, leading to funding being withdrawn, and the need for feasibility studies to inform opportunities.</p> <p>A £1.891m grant was awarded to the Council through the government's Public Sector Decarbonisation Scheme (PSDS). This grant was for carrying out low carbon heat schemes at Ambergate Depot, White Hall Centre and Buxton Junior School, identified through feasibility studies funded by BEIS' Low Carbon Skills Fund. However, the proposed works at Ambergate Depot and the White Hall Centre encountered technical and procurement difficulties which meant that they could not be completed by the required deadline and therefore funding was withdrawn. The project at Buxton Junior School is currently underway.</p> <p>The PSDS phase 3b is open to new bids for, to which the Council has submitting a bid for £0.178m, for the installation of an Air Source Heat Pump at Alice's View Children's Centre. Applications to the fund are typically based on preliminary feasibilities and therefore carry risk. To minimise risk from any future bids, Council funding of projects to the design and procurement stage is needed prior to an application for PSDS funding.</p> <p>Mitigation: Corporate Property are reviewing potential buildings for future PSDS funding bids and seeking support for feasibility, design and procurement funding.</p>
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4	Identify buildings to be retained and undergo energy efficiency retrofit.	Property and Estate	2023	Identification of which buildings provide the greatest opportunity for retrofitting and a high-level analysis of opportunities, costs and benefits carried out.	 (no change)	High	<p>GOOD: On track or complete with outcomes in line with expectations</p> <p>The Asset Strategy for the corporate estate has been reviewed to identify buildings to be retained, buildings for disposal, and buildings under review. The value of all known disposals is quantified. Property rationalisation is a significant factor in reducing future energy use and carbon emissions.</p> <p>Corporate Property has identified three proposed energy reduction measures</p> <ol style="list-style-type: none"> 1. Installation of solar PV on rooftops (30 priority schemes identified) 2. Active energy monitoring through the installation of remote monitoring equipment (30 priority schemes identified) 3. Improvements to thermal performance and energy efficiency (30 priority schemes identified) <p>Priority projects are included in a capital strategy bid submitted in September 2022.</p>
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5	Roll out a Council wide electric vehicle sharing programme and electric vehicle charging points at all key Council sites, coupled with a behaviour change campaign and evaluation of working practices to facilitate a zero-emission fleet.	External Travel and Transport	2025	Targets for EV pool car use and fleet vehicle decarbonisation set out in the Place Service Plan met.	 (no change)	High	<p>REVIEW: Some risk to achieving timetable and/or outcomes. Council fleet EV usage has greatly increased post pandemic, attributed to high fuel costs, but the limited number of pool vehicles cannot meet demand for enquiries at present.</p> <p>A coordinated working group has been established between sustainable transport (for the charging infrastructure) and fleet services (for the vehicles), as well as comms, HR and legal teams. Change needed in order to reduce the carbon and financial impact of grey fleet travel across the Council. Place is now in dialogue with departmental leads, HR, and Finance to look at increased use of EV pool cars</p> <p>Place is in dialogue with Asset Management to ensure that proposed charging locations are in assets which are not subject to potential disposal and are in suitable locations. The design standard for new build supports the EV strategy. Discussions held over consideration for inclusion of charging infrastructure in the depot rationalisation programme.</p> <p>Mitigation: A working group has been formed to establish a joint action plan to coordinate this work. Funding secured for a fulltime LEVI officer aligned to the Sustainable Travel team in Economy and Regeneration. This will add much needed capacity to the project.</p>
6	Develop a Sustainable Procurement Framework using the UK government's green procurement guidance to embed environmental requirements and Social Value into all contracts.	Procurement	2022	Sustainable procurement policy developed and approved by Cabinet and outcomes from its implementation monitored and reported.	 (no change)	High	<p>GOOD: On track or complete with outcomes in line with expectations</p> <p>Cabinet approved the Sustainable Procurement Policy in October 2021 and work is being done to communicate this to staff and make it accessible on the DCC Website. As part of the Council's use of the Social Value Portal, the National TOMs (Themes, Outcomes and Measures) Framework into will be incorporated into Council procurement contracts with the aim of achieving more sustainable value from procurements.</p>


7	Review the commissioning principles across all teams to ensure that climate change is embedded across our services and partner working.	Procurement	2022	Sustainable procurement policy developed and approved by Cabinet and outcomes from its implementation monitored and reported.	 (no change)	High	<p>GOOD: On track or complete with outcomes in line with expectations</p> <p>The Sustainable Procurement Policy will embed sustainable procurement principles and practice into all procurements and commissioning carried out across the Council.</p>
8	Carry out a feasibility study to identify low carbon energy procurement options.	Property and Estate	2023	Feasibility study completed on an annual basis, with findings used to inform procurement and emissions reduction impact quantified.	 (no change)	Moderate	<p>REVIEW: Some risk to achieving timetable and/or outcomes. This is due to price and supply issues in the UK energy market.</p> <p>Discussions held with the Council's energy supplier in September 2022 indicate that the procurement of a renewable energy tariff for 2023/24 will not be feasible due to energy market pressures, price rises and insufficient supply capacity. This will be monitored and revisited in Summer 2023 ahead of the 2024/25 financial year.</p> <p>Mitigation: The feasibility study will be revisited during Summer 2023.</p>



9	Include climate change training as part of the induction process for all Elected Members and staff to strengthen knowledge of carbon emissions, climate resilience and net zero development.	Internal Engagement and Training	2022	All new staff to have undertaken mandatory e-learning module. Six 1.5-2 hour training sessions held over each 12-month period. Capture any follow-up positive actions reported by staff participating.	 (no change)	Moderate	<p>GOOD: On track or complete with outcomes in line with expectations</p> <p>Following approval from the Corporate Management Team, a comprehensive climate change training offering for employees and elected members is being developed and rolled out. An online climate change training module has become a mandatory part of the induction process for new employees.</p> <p>Six two-hour Climate Change and Sustainability sessions have been made available for all employees and, to-date, five have been delivered, all of which were fully booked, Further session are to be arranged.</p> <p>Carbon Literacy training took place over two mornings on 19 and 26 May 2022 which was attended by Elected Members and Senior Officers. Further development and roll out of this training is being reviewed. The Climate Change team have been asked to present to Elected Members at the member development event in September.</p>
Low Carbon Economy							
Ref	Action	Lead Theme	Target date for completion	Success Measure	Status	Impact on net zero targets if not achieved	Summary of Progress



10	Develop a Renewable Energy Strategy for the county including an energy resource assessment that identifies opportunities for renewable energy generation as well as decarbonisation of heating and energy use in homes.	Planning	2022	Renewable energy study complete and being referenced and incorporated in Local Plans and planning activities across the county.	 (no change)	High	<p>GOOD: On track or complete with outcomes in line with expectations</p> <p>Funding secured from D2N2, Midlands Energy Hub and the Derbyshire Economic Prosperity Committee. Project commissioned in December 2021.</p> <p>The final version to be published week commencing 10 October. This study will provide important evidence in Local Plan preparation across Derbyshire and the City as they become replaced or reviewed. This will provide the basis of formulating local policy on renewable energy</p> <p>The Steering Group has been providing feedback to the consultancy team throughout.</p>
11	Work with the Midlands Energy Hub, D2N2 LEP and universities and colleges to build technical and economic capabilities to deliver renewable energy and low carbon heating projects.	Low Carbon Economy	2025	Delivery plan in place and being progressed in line with established targets and objectives, with DCC responsibilities and role clearly defined. Carbon savings resulting from projects captured where possible.	 (no change)	Moderate	<p>REVIEW: Some risk to achieving timetable and/or outcomes. This is due to much control and influence sitting outside of the Council.</p> <p>The Council's Economic and Regeneration Service attend and input into relevant D2N2 and Midlands Net Zero Hub groups and the Midlands Energy Growth Board to deliver objectives as set out in the Midlands Engine Ten Point Plan for Green Growth as well as wider ambitions around skills and training. Plans for collaborative projects are beginning to emerge.</p> <p>A Hydrogen Skills Academy is proposed at the East Midlands Freeport, which will help consolidate approach to building specific skills in hydrogen technologies over the medium term (2+ years).</p> <p>Mitigation: The Theme Lead for Low Carbon Economy and the Council's lead for skills and employment are increasingly fostering collaborative working with partners to accelerate this area of work.</p>


12	Liaise with DNOs and D2N2 LEP to understand grid capacity / constraints for generation opportunities.	Low Carbon Economy	2025	Ongoing dialogue established with relevant stakeholders and DCC's responsibilities and role clearly defined. Action Plan developed to address constraints.	 (no change)	Low	<p>REVIEW: Some risk to achieving timetable and/or outcomes. This is due to much control and influence sitting outside of the Council and to other commitments within relevant teams putting strain on capacity.</p> <p>The Renewable Energy Study explores some of these issues, however, further focussed work is needed in this area. A scope for a Derbyshire Energy Framework is in development, with one of the primary themes being Electricity Distribution, Infrastructure and Balancing.</p> <p>Mitigation: The Theme Lead for Low Carbon Economy, alongside the Climate Change Team, are exploring opportunities to accelerate delivery of this action.</p>
13	Deliver the Derbyshire Green Entrepreneurs scheme and provide additional support for reducing environmental impacts, driving innovation, and curating sustainable growth for smaller businesses.	Low Carbon Economy	2021	The success criteria of the GEF has been met or exceeded	 (no change)	Moderate	<p>GOOD: On track or complete with outcomes in line with expectations</p> <p>Strong progress made across the Green Entrepreneurs Programme. As of end of September:</p> <ul style="list-style-type: none"> £609,714 has been awarded on Strand 1 to four projects, three are Live, one is in due diligence (large scale demonstrator fund) with another full application currently being assessed with expectation of being presented to Board at December meeting. £30,705 has been awarded to 28 individuals on strand 3 (scholarship funding). Take up of the small grants for businesses (strand 2) was slower than anticipated – predominantly due to the current market conditions and rising inflation costs which seems to be affecting business confidence. Currently, £94,298 has been awarded to 6 small businesses as a grant and there are 2 more awaiting a confirmation of funding decision from the Board (£40k) and there are ten proposals that have been invited to submit a full application for a small grant where the organisation is working up their submission to a total of £162,419.


14	Take forward the COVID Recovery Strategy to identify high carbon commercial industries, and support the business community in shifting to and benefiting from the low carbon economy through collaboration with climate change and carbon experts.	Low Carbon Economy	2021	Delivery plan in place and being progressed in line with established targets and objectives, with DCC responsibilities and role clearly defined. Carbon savings resulting from projects captured where possible.	 (no change)	Moderate	<p>REVIEW: Some risk to achieving timetable and/or outcomes. This is due to much control and influence sitting outside of the Council and to other commitments within relevant teams putting strain on capacity.</p> <p>The DE-Carbonise programme is coming to an end in October and all previously targeted outputs have been exceeded in relation to providing grants to support business in de-carbonising their buildings and processes. Potential extension to this programme is being explored through Shared Prosperity Funding – subject to on-going proposals.</p> <p>Working through the D2N2 Growth Hub and Midlands Engine, which the Council is fully engaged with, tangible collaborative projects are beginning to emerge. A scope for a Derbyshire Energy Framework is in development.</p> <p>Mitigation: The Theme Lead for Low Carbon Economy, alongside the Climate Change Team, are to explore opportunities to accelerate delivery of this action.</p>
15	Work with local academic institutions, trade unions, and regional Chamber of Commerce to identify geographical areas for low carbon industry growth, as well as assessing and develop the capabilities and skills of the region in supplying those industries.	Low Carbon Economy	2025	Delivery plan in place and being progressed in line with established targets and objectives, with DCC responsibilities and role clearly defined. Carbon savings resulting from projects captured where possible.	 (no change)	High	<p>REVIEW: Some risk to achieving timetable and/or outcomes. This is due to much control and influence sitting outside of the Council.</p> <p>The Council's lead for skills and employment supports this work through relevant D2N2 groups and the Chamber of Commerce. However, more action is required within the county and region in order to meet ambitions around skills and employment. A scope for a Derbyshire Energy Framework is in development.</p> <p>Mitigation: The Theme Lead for Low Carbon Economy and the Council's lead for skills and employment are increasingly fostering collaborative working with partners to accelerate this area of work. Potential for work in this area to be accelerated through a planned review of D2 Economic Strategy and emerging work on devolution deal.</p>


16	In line with Vision Derbyshire, continue working with Borough District councils to develop a Strategic Joint Planning Framework for Derbyshire to ensure that planning measures for net zero commercial buildings are integrated into Local Plans.	Planning	2022	Strategic Joint Planning Framework developed in collaboration with local authority partners. Referenced and incorporated in Local Plans and planning activities across the county.	 (no change)	High	<p>REVIEW: Some risk to achieving timetable and/or outcomes. This is due to other areas of focus taking precedent within planning working groups, and clear guidance from central government is awaited.</p> <p>This area of work has been paused while collaborative working with the District and Borough councils has focussed on the development of a Climate Change Planning Guidance document. Options are being explored within the Vision Derbyshire Planning and Climate Change Subgroup on whether launching the development of a Strategic Joint Planning Framework would be appropriate following the publication of the Planning White Paper.</p> <p>However, despite the pause on the Strategic Joint Planning Framework, the Vision Derbyshire Climate Change and Planning subgroup has confirmed its priority projects for the Phase 4 work programme, these being:</p> <ul style="list-style-type: none"> • Climate Change Design Guide/Code for Derbyshire • Biodiversity Net Gain Guidance <p>These projects will enable net zero and wider sustainability considerations to be fully embedded within Local Plans and related planning activities and policies.</p> <p>Mitigation: The Theme Lead for Planning is leading discussions on this action and coordinating the delivery of the confirmed Phase 4 project priorities with the district and borough councils.</p>
Decarbonising the Domestic Sector							
Ref	Action	Lead Theme	Target date for completion	Success Measure	Status	Impact on net zero targets if not achieved	Summary of progress



17	Conduct an updated feasibility assessment on the low carbon heat and renewable energy opportunities within the county.	Climate Change Team	2023	At least one feasibility study conducted per year leading to a proposal for capital work.	 (no change)	High	<p>REVIEW: Some risk to achieving timetable and/or outcomes. This is due to other areas of focus taking precedent within relevant working groups, and clear guidance from central government is awaited.</p> <p>The Renewable Energy Study will start to look at this and identify broad opportunities. This is also being explored through the Vision Derbyshire Climate Change Officers group, focussing on the heat network opportunity at Clay Cross, for example, and micro-generation opportunities. A scope for a Derbyshire Energy Framework, led by Derbyshire County Council, is in development.</p> <p>Mitigation: This area of work is being explored collaboratively with the district and borough councils through relevant working groups.</p>
18	Use outputs of the Renewable Energy Strategy to work with partner local authorities to adopt a whole-system Local Area Energy Planning approach to increase onsite low-carbon energy generation and reduce the demand for energy.	Climate Change Team	2025	Renewable energy study complete and being incorporated in planning activities across the county. Renewable energy growth across the county and carbon savings resulting from projects captured where possible.	 (no change)	High	<p>GOOD: On track or complete with outcomes in line with expectations</p> <p>The Renewable Energy Study explores this and identify opportunities for increasing renewable energy generation across the county. Local Plan reviews are happening over the next few years, providing the Council with have opportunities to influence this as well as wider low carbon planning and development. A scope for a Derbyshire Framework Strategy is in development, as well as a proposed D2N2 Local Area Energy Plan.</p>


19	Through the Vision Derbyshire process agree the approach to supporting the decarbonising of homes recognising the specific opportunities and challenges faced by renters and homeowners and reflecting the need to particularly support those in fuel poverty.	Climate Change Team	2023	Delivery plan in place and being progressed in line with established targets and objectives, with DCC responsibilities and role clearly defined. Carbon savings resulting from projects captured where possible.	 (no change)	Moderate	<p>GOOD: On track or complete with outcomes in line with expectations</p> <p>The Council continues to work with the district and borough councils through the Local Authority Energy Partnership (LAEP) to identify and develop projects to tackle fuel poverty across the county. The Derbyshire Healthy Home programme continues to replace inefficient and carbon intensive domestic heating systems with modern gas boilers and insulation for eligible households.</p> <p>The Council, along with the district and borough councils, have received extensive training on community engagement through the UK100 Local Climate Engagement Programme. An Officers Working Group (OWG) has been established to produce an Engagement Plan to be rolled out in Autumn 2022. This will involve engaging with residents in Derbyshire to co-produce a 'decarbonising housing' plan which will then be co-delivered. The engagement will help the Council to understand what support local authorities could provide to enable homeowners to retrofit their own homes. The Vision Derbyshire Living and Working Sustainably Theme has agreed to provide governance and oversight to the work.</p> <p>Opportunity through devolution seed funding of up to £9m to support retrofit in social housing – likely to be confirmed in Autumn 2022.</p>
20	Planning work with the districts and boroughs to develop a Strategic Joint Planning Framework for Derbyshire to ensure achievement of minimum energy standards and net zero housing development.	Planning	2022	Strategic Joint Planning Framework developed in collaboration with local authority partners. Referenced and incorporated in Local Plans and planning activities across the county.	 (no change)	High	See Action 16


21	Work with local authority and wider government partners to develop a Regional Skills Strategy that identify areas of upskilling within the house building and retrofit sectors, and creates investor-ready training programmes to receive support from the proposed National Skills Fund.	Climate Change Team	2023	Delivery plan in place and being progressed in line with established targets and objectives, with DCC responsibilities and role clearly defined. Carbon savings resulting from projects captured where possible.	 (no change)	High	<p>REVIEW: Some risk to achieving timetable and/or outcomes. This is due to much control and influence sitting outside of the Council.</p> <p>The Council's Economic Regeneration Team attend and input into relevant D2N2 groups and the Midlands Energy Growth Board to deliver objectives as set out in the Midlands Engine Ten Point Plan for Green Growth as well as wider ambitions around skills and training. Tangible collaborative projects are beginning to emerge.</p> <p>As part of the Local Climate Engagement programme (see action 19) plans are in development for engaging with the supply chain to ensure sufficient skilled capacity in place to retrofit Derbyshire's homes.</p> <p>Mitigation: The Theme Lead for Low Carbon Economy, the Climate Change Team, and the Council's lead for skills and employment are increasingly fostering collaborative working with partners to accelerate this area of work. The emerging skills strategy for D2N2 devolution deal presents a significant opportunity for consolidating this work.</p>
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22	Develop an information sharing campaign to educate homeowners and renters on how to improve the energy efficiency of their property	Climate Change Team	2023	Campaign developed and rolled out, in collaboration with local authority partners. Carbon savings resulting from projects captured where possible.	 (no change)	Moderate	<p>GOOD: On track or complete with outcomes in line with expectations</p> <p>Working with the district and borough councils through the UK100's Local Climate Engagement Programme, the Council will be engaging with homeowners across the county during Autumn and Winter 2022 to co-produce a 'decarbonising housing' plan which will then be co-delivered. The engagement will help the Council to understand what support local authorities could provide to enable homeowners to retrofit their own homes. A Comms Plan is also being developed to ensure key messaging across all local authorities is consistent. The Comms Plan will include wider messaging related to reducing energy use and managing energy bills.</p> <p>The Council is talking to other organisations have developed retrofit initiatives that deal with privately owned homes and are keen to learn from these to complement the knowledge and perspectives gained from the community engagement.</p>
Transport, Travel and Infrastructure							
Ref	Action	Lead Theme	Target date for completion	Success Measure	Status	Impact on net zero targets if not achieved	Summary of progress


23	Promote integrated, and place-based development in transport planning as part of Derbyshire's COVID recovery and economic revival of market towns, to reduce emissions from first and last mile journeys and provide an economic boost to local retail and businesses.	External Transport and Travel,	2025	Delivery plan in place and being progressed in line with established targets and objectives, with DCC responsibilities and role clearly defined. Carbon savings resulting from projects captured where possible.	 (no change)	High	<p>GOOD: On track or complete with outcomes in line with expectations</p> <p>This action is being progressed through various ongoing areas of activity. This includes the market town programme workstream, which includes sustainable transport and travel within its remit. Projects being led by the planning team (such as the development of the Climate Change Planning Guidance) and the sustainable transport team (such as work around active travel and EV charging infrastructure) are also contributing to this. The updated Local Transport Plan will include climate change considerations and new Guidance anticipated to require a quantifiable carbon reduction assessment and plan for Derbyshire's transport sector. The Government has provided grant funding to assist with plan preparation and Cabinet approval is being requested to use part of this allocation for technical support to carry out the carbon quantification work.</p>
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24	Support the new Enhanced Bus Partnership arrangements being introduced in Derbyshire as part of the new National Bus Strategy. This will involve Derbyshire County Council and the bus operators investing in new service provision, improved roadside bus infrastructure, mobility as a service, integrated ticketing systems, and upgraded information availability to provide an improved public transport offering to Derbyshire residents.	External Transport and Travel	2022	BSIP delivered, monitored and evaluated in line with the established aims and objectives.	 (no change)	High	<p>REVIEW: Some risk to achieving timetable and/or outcomes. This is due to a reduced level of funding secured for the BSIP and delays in the release of funding from DfT.</p> <p>The Bus Service Improvement Plan (BSIP) submission was approved by Cabinet on 14 October 2021 and submitted to DfT. Confirmation received that BSIP has been successful with £47m awarded to the Council, around half of what the Council requested in the bid. This reduced funding means that the scope of work has been reviewed. DfT have not yet released the funding, therefore preparation work is continuing but is limited because of the continued uncertainty. Work on Enhanced Bus Partnership continues. Countywide Transport Hub study complete via SYSTRA and report completed. The work incorporates considerations for connectivity to/from other modes and sustainable travel and is linked to the BSIP.</p> <p>Mitigation: Now that funding has been confirmed for the BSIP, the programme of work is being established whilst waiting for release of the funds from DfT, with recruitment planned to enable implementation of projects.</p>
25	Support the implementation of the Derbyshire Cycling Plan and the Local Cycling and Walking Infrastructure Plan.	External Transport and Travel	2022	Key Cycle Network information updated and priority work carried out (subject to DfT funding).	 (no change)	Moderate	<p>GOOD: On track or complete with outcomes in line with expectations</p> <p>Work to adopt a D2N2 Local Cycling and Walking Infrastructure Plan (LCWIP) continues and a further public engagement exercise is programmed for the autumn/ winter ahead of adoption of the final Plan. The LCWIP contains the strategic Derbyshire Key Cycle Network proposals.</p> <p>Key Cycle Network information being updated. White Peak Loop is a priority at the moment with feasibility studies underway. Active Travel Tranche 2 funding secured.</p> <p>The Council has submitted a £356k Capability and Ambition Fund bid (September 22) to build capacity and develop business cases for more complex active travel schemes in market towns.</p>



26	Support actions for increasing the uptake of active transport to reduce emissions particularly within marginalised groups, and improve health and wellbeing for all.	External Transport and Travel	2022	Relevant schemes carried out successfully and in line with their specific objectives. DfT Capability Fund funded work completed and findings implemented. Carbon savings resulting from projects captured where possible.	 (no change)	Moderate	<p>GOOD: On track or complete with outcomes in line with expectations</p> <p>Various areas of work relevant to this action are being progressed. This includes a potential GP referral scheme with Public Health, which would include targeting marginalised groups, such as people in deprived areas with high levels of health inequality (application for this pilot scheme was unsuccessful). Smart Rider cycle safety schemes for school children and adult cycle training are delivered by the Council's coordinated by the road safety team.</p> <p>The Council has secured funding from Round 1 of the DfT Capability Fund to undertake a range of feasibility studies supporting the D2N2's Local Cycle and Walking Infrastructure Plan.</p> <p>Rural Action Derbyshire's Wheels to Work programme provides moped and bike information, training and loans to help people access work training or education. Revenue and Capital funding for this programme is confirmed until March 2024.</p>
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27	Continue to support the above average growth of zero emissions vehicle ownership in the country by establishing public private investment partnerships to develop a network of mixed speed public charging and hydrogen infrastructure, which is affordable, consistent, accessible and user friendly for residents and visitors.	External Transport and Travel	2022	Delivery plan in place and being progressed in line with established targets and objectives, with DCC responsibilities and role clearly defined. EV numbers tracked against target. Carbon savings resulting from projects captured where possible.	 (no change)	High	<p>GOOD: On track or complete with outcomes in line with expectations</p> <p>EV charge point work is ongoing. A consultant has completed a study into potential demand across the county and to assess the preferred locations and types of charge points needed to meet this demand. This project involves working with the District and Borough councils, with a series of workshops undertaken. Consultants have begun the process of soft market testing with commercial suppliers. A full time Lower Emissions Vehicle Infrastructure Project Officer is also due to start work for the council in October to drive further progress. The Council is currently working with a consortium, led by CENEX but also including DCC, Karshare and Co-Charger, looking at shared EV and EV Chargepoint ownership in a rural setting, concentrating on Buxton and Hope communities. As a result, £100k funding has been secured from Midlands Connect to develop and implement the project.</p> <p>Low Carbon Mobility Task Force (through D2N2) is looking at hydrogen fuel and technology opportunities, which the Council is involved in.</p>
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28	Evaluate the use of smart technologies and alternative fuels to reduce the emissions associated with commercial and freight transports e.g. consolidation hubs, hydrogen sub-stations, transport mobility hubs, mobility as a service etc.	External Transport and Travel	2023	Projects and schemes tracked and reported, along with carbon reduction impact, where possible.	 (no change)	Low	<p>REVIEW: Some risk to achieving timetable and/or outcomes. This is due to limited capacity and higher priority areas within the relevant teams, as well as complexities around external funding for these areas of work.</p> <p>This action is being progressed through various ongoing areas of activity. This includes a feasibility study for two transport hubs in the county, exploring opportunities around Mobility as a Service, and opportunities for developing a portal for all transport information in the county. The Council has supported at least three district councils to include mobility hub elements in their Levelling Up Fund bids to Government – awaiting outcome. A Mobility Hub strategy is to be a focus in the autumn.</p> <p>Note this has strong links with the BSIP which includes funding for transport mobility hubs.</p> <p>Mitigation: A Mobility Hub strategy is to be developed. The Vision Derbyshire economic group is currently developing the scope of its next project around smart counties, which will also help to deliver this area of work.</p>
Waste							
Ref	Action	Lead Theme	Target date for completion	Success Measure	Status	Impact on net zero targets if not achieved	Summary of progress

29	Identify solutions to increase the diversion of organic waste including food, soiled materials, carpets, organic textiles, etc. from landfill.	Waste	2023	Delivery plan in place and being progressed in line with established targets and objectives, with DCC responsibilities and role clearly defined. Carbon savings resulting from projects captured where possible.	 (no change)	Moderate	<p>GOOD: On track or complete with outcomes in line with expectations</p> <p>The Council is predominantly responsible to the disposal of residual municipal waste. It facilitates the increased diversion of the identified materials through its waste disposal/treatment contracts which encourage the disposal of materials via new technologies rather than landfill. The Council promotes home composting, reduction of food waste through Love Food Hate waste, for example.</p> <p>A consistency consultation paper is still under review by DEFRA, the Council and the Waste Collection Authorities (WCAs) are currently reviewing the potential impacts and opportunities to services and contracts, and where possible collaboration, creating competitive tendering within the business environment and therefore Value for Money for stakeholders and public services. Therefore, delivery plan continues to be progressed with relevant stakeholders.</p> <p>Waste Management service are reviewing Household Waste Recycling Centres performance to understand the potential opportunities for increased recycling and diversion</p>
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30	Undertake a cross authority behaviour change campaign to promote reduction in waste and resource consumption in the home and businesses.	Waste	2022	Campaigns developed and rolled out, in collaboration with local authority partners, with success monitored and reported.	 (no change)	Moderate	<p>REVIEW: Some risk to achieving timetable and/or outcomes. This is due to limited capacity at present in the waste management team, and due to the Council's limited direct control in this area.</p> <p>The Council as Waste Disposal Authority runs campaigns and where possible does so in partnership with WCAs. The campaigns focus on Household Waste Arisings (not business waste), as the Council only has a remit for the disposal of Household Waste arisings.</p> <p>Waste reduction messages are communicated where resources allow. The Council uses social media messages as much as possible. Videos are currently being promoted to encourage food waste reduction and the plan is to promote more messages when resources permit.</p> <p>Smaller campaigns are being rolled out, to align with the Household Waste Recycling Centre performance review and operational health and safety concern i.e., sorting your waste campaign at the HWRCs. The Service will continue to promote through social media where possible. Videos produced for publication on WCA websites</p> <p>Mitigation: The Theme Lead for Waste is continuing to work closely with WCAs in this area.</p>
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31	Work with local producers and businesses to restrict the use of single use products and support the market for remanufactured goods.	Waste	2024	Delivery plan in place and being progressed in line with established targets and objectives, with DCC responsibilities and role clearly defined. Carbon savings resulting from projects captured where possible.	 (no change)	Moderate	<p>REVIEW: Some risk to achieving timetable and/or outcomes. This is due to limited capacity at present in the relevant teams, and due to the Council's limited direct control in this area.</p> <p>The sustainable procurement policy will help to ensure that, when procuring contracts, departments will look to source products with recycled content and reduce single use plastics. This is to be supported by the Council's' Single Use Plastics (SUP) policy. Further engagement with producers and businesses is planned but not yet carried out due to capacity issues in relevant teams.</p> <p>Continue to promote sustainable procurement policy when procuring new contracts.</p> <p>Mitigation: The Theme Leads for Waste and Procurement are exploring opportunities to increase capacity to deliver this action.</p>
32	Explore the potential for partnering with local charities and organisation to segregate and redistribute good quality products from HWRC	Waste	2025	Delivery plan in place and being progressed in line with established targets and objectives, with DCC responsibilities and role clearly defined. Carbon savings resulting from projects captured where possible.	 (no change)	Low	<p>GOOD: On track or complete with outcomes in line with expectations</p> <p>The new Household Waste Recycling Centre contracts (starting in 2022) address Social Value and encourage working with the Third Sector to deliver a service where Reuse and Recycling opportunities are maximised.</p> <p>The new Household Waste Recycling Centre contract has a requirement to redistribute good quality products from HWRCs. The contract is currently in the mobilisation phase and this will be discussed during this phase (contract start date 3 October 2022).</p>






LONG-LIST ACTIONS – Summary

In addition to the 32 priority actions listed above, the Strategy includes a series of 120 'Long List' supplementary actions, initiatives and projects, which it is anticipated the County Council will either lead or support. As part of the annual review of delivery of the Strategy carried out in Autumn 2022, the Long List has been reviewed and rationalised, with a new Long List of 30 actions established. A summary performance for these 30 actions is provided below.












13 long list actions (43%) are scored as being **Good** (on track or complete with outcomes in line with expectations) with 15 actions (50%) requiring **Review** (some risk to achieving timetable and/or outcomes).



Two actions are identified as requiring **Action** (unlikely to achieve timetable and/or to deliver required outcome), a summary of the actions being taken to rectify the relevant issues and bring the actions back on track, are detailed below:

- LL15 – Grid Capacity and Demand:** 'Electricity Distribution, Infrastructure and Balancing' is one of seven primary themes in the proposed Strategic Framework for Council action to deliver Net Zero energy in Derbyshire. Through this, the Council will seek to assess how to engage and work with the DNOs and other partners (including community energy groups and the county's mineral products industry) to understand and address issues around grid constraints and future demand models and scenarios. Grid constraints are a significant limitation on the development of large-scale renewable energy generation, and so working collaboratively to address this national issue in the local context will help to enable future energy generation opportunities and new ways to balance the grid more effectively.
- LL21 – Funding Support:** Through the Local Climate Engagement programme the Council is working with the borough and district councils to engage with residents to understand what support they need to enable them to retrofit their own homes and to co-design and co-deliver a programme of activities which will support homeowners to make their homes fit for the future. Although financial support to residents is not expected to be part of the support provided through the programme, guidance on, and signposting to, wider central government financial support will be included in any information sharing mechanism and campaigns.

COUNCIL ESTATE AND OPERATIONS		
Ref	Action	Status
LL1	Decarbonising Schools: Undertake a baselining exercise with all schools in Derbyshire to identify their existing emissions and ongoing work to reduce energy consumption. For all schools within the Derbyshire County Council Portfolio agree a target date to reduce emissions to net zero, between 2030 and 2040.	
LL2	Policy Review: Review all relevant existing Derbyshire County Council policies and update, where required, to ensure they consider carbon reduction and climate resilience and do not contradict our Climate Change Strategy and direction.	
LL3	Renewable Energy Generation: Maximise opportunities for renewable energy generation on Council property and work with partners, such as Midlands Net Zero Hub, to deliver collaborative projects and access funding streams.	
LL4	Efficient Buildings: Install lighting and heating controls, as well as water efficiency measures, across the estate to improve energy and water efficiency and continue to embrace the use of new technology to create a more agile, flexible, and mobile workforce.	
LL5	Behaviour Change (Internal): Undertake awareness raising and behaviour change campaigns to ensure all staff know how to make	

	energy efficient choices in the home and workplace. Include climate-conscious behaviour into Job Descriptions, Employment Terms and Conditions and as part of the staff annual performance review.	
LL6	Behaviour Change (External): Provide ongoing up-to-date information on activities to reduce energy use and on taking wider action to tackle climate change on the Derbyshire County Council website. Work with communities to co-design and co-deliver specific actions within the Climate Change Strategy.	✓
LL7	Council Fleet Vehicles: Review core fleet requirements in each department to understand the current and potential future use of the core and grey fleet considering company EVs; hire vehicles; inter-departmental sharing of core vehicles, use of VMS. Deliver a programme to replace Derbyshire County Council's HGVs in 2024 with Clean Air Zone (CAZ) compliant vehicles combined with use of satellite navigation, awareness of driver style and use of a Vehicle Management System. Use the collective purchasing power of Derbyshire's councils when purchasing fleet vehicles.	✓
LL8	Scope 3 emissions: Map the Council's level of influence against different levels of emitters to prioritise and focus action, and estimate emissions from 'Working at home'.	✓
LL9	Project Scoping and Impact Assessments: Carry out Climate Impact Assessments on all Derbyshire County Council infrastructure projects from 2022 identifying the whole carbon lifecycle and resilience to climate change. Ensure low carbon and resilient options are embedded in scope of works for new developments for client partners.	🟡
LL10	Procurement: Consider opportunities for a joint procurement approach across local authorities in Derbyshire to purchase low carbon services including electric vehicle charging infrastructure, and building upgrades.	🟡
LOW CARBON ECONOMY		
Ref	Action	Status
LL11	Low Carbon Heat: Work with industrial partners to identify opportunities for waste heat recovery to serve low-carbon heating schemes, and to explore opportunities for the electrification of heat and heat pump technologies in non-residential buildings.	🟡
LL12	Planning: Work with local authority partners and developers to better understand the integration of whole life carbon assessment into non-residential new developments, and to identify focus areas for energy efficiency improvements and renewable energy generation installations in the county's existing non-residential building stock.	✓
LL13	Minerals Industry: Work with the minerals industry to identify partnership projects for the transition to a low carbon sector.	✓
LL14	Community Energy: Work with community groups to develop community energy schemes and help secure funding from the Local Enterprise Partnership (LEP) for local energy projects.	✓
LL15	Grid Capacity and Demand: Work with the DNOs and other partners to identify priority zones for low carbon development, to support the energy transition, and to reduce additional stresses placed on power networks due to increased electrification (transport, heat etc.) and increased penetration of renewables.	🔴
LL16	Business Support: Continue investing in the Derbyshire Green Entrepreneurs Fund, explore other mechanisms (such as a revolving fund) and secure external funding where relevant, to support Derbyshire businesses in improving the carbon and energy consumption in operational performance and to drive innovation and curate sustainable growth.	🟡
LL17	Skills and Training: Develop a comprehensive apprentice training programme developed in conjunction with University Partners, kick-started by placing requirements on directly commissioned works.	🟡
DECARBONISING THE DOMESTIC SECTOR		
Ref	Action	Status

LL18	Retrofitting Project Pipeline: Work with the district and borough councils, Midlands Net Zero Hub and the D2N2 LEP to identify a programme of 'shovel ready' projects and partnership frameworks for retrofitting domestic properties and to enable a more rapid, collaborative and timely response to funding opportunities.	
LL19	Planning: Continue to work with the borough and district councils and developers to explore increasing requirements within Local Plans and wider planning policies for zero carbon homes and so that new housing developments are resilient a changing climate.	
LL20	Domestic Retrofit Skills, Employment and Training: Carry out analysis to understand the capacity of the construction and retrofit sectors to retrofit all homes across Derbyshire to EPC rating C or above by 2035. Work with local authority and academic partners, as well as industry, to continue to strengthen and develop local skills, capacity, frameworks and expertise in domestic energy efficiency retrofitting, and develop a Regional Energy Skills Strategy to inform investor-ready programmes to receive support from the National Skills Fund.	
LL21	Funding Support: Support residents in responding quickly to government financial support for home improvement, and explore the feasibility of a council-managed local green homes fund to provide access to homeowners for financial support with energy efficiency improvements, as well as passing on savings from bulk retrofit contracts.	
TRANSPORT, TRAVEL AND INFRASTRUCTURE		
Ref	Action	Status
LL22	Active Travel: Develop partnerships and seek funding for training and support to increase number of young people who can cycle confidently and cycle regularly. Ensure cycle proofing is embedded in design of future infrastructure developments and increase the use of active travel (cycling and walking) for first and last mile transport use by utilising a more connected approach across different service offerings.	
LL23	Bus Services and Infrastructure: Through delivery of the Bus Service Improvement Plan and working with local and regional partners, such as Midlands Connect, work collaboratively to: <ul style="list-style-type: none"> • Introduce measures to present the bus services in Derbyshire as a singular coordinated network. • Install electronic real time information signs and LED lighting at all key bus stops and interchanges. • Implement targeted punctuality improvement infrastructure measures to make bus journeys quicker and more reliable. • Continue investment in new buses to improve vehicle emissions standards and introduce low carbon buses such as electric or hydrogen. 	
LL24	Planning: Reinvigorate travel planning and behavioural change activities linked to new housing and commercial developments, and ensure public transport routes and gateways are developed to access rural areas, including the Peak District National Park.	
LL25	Taxi Operators: Support taxi operators in embracing alternative technologies and infrastructure by support applications for grant funding and expanding the public charging network.	
LL26	Technology: Track developments in transport technology to ensure rapid deployment of low carbon solutions.	
LL27	EV Charging Infrastructure: Work with partners to accelerate the shift to electric vehicles through improving charging point infrastructure and promoting the uptake in these vehicles, with a particular focus on facilitating a growth in charging infrastructure in areas where there is little or no commercial viability (such as on-street charging).	
WASTE		
Ref	Action	Status
LL28	Strategy Development and Implementation: In the development of the new Derbyshire Waste Strategy integrate circular economy principles and set ambitious targets for increased reuse and recycling.	

LL29	Council Waste and Resources: Establish task groups within each Department to promote good waste reduction, recycling and recovery practices within service delivery and contracting activities. Produce six monthly reports on waste produced across the estate and make this available to all staff to enable better understand of the impact of waste reduction measures.	
LL30	Partnership Working: Continue to work with local, regional and national partners on improving levels of waste diversion through effective public engagement and behaviour change. Work with local businesses to explore embedding circular economy practices within operations and explore opportunities for collaboration with research groups and universities.	

Derbyshire County Council Climate Change Strategy: Annual Review of Progress

November 2022

Overview

- The **Derbyshire County Council Climate Change Strategy: Achieving Net Zero (2021-2025)** was approved by Cabinet on 14 October 2021

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The Cabinet report committed to an annual summary of progress to Cabinet against delivery of the Strategy and the Council's net zero targets.

- The Annual Report is an agenda item for Cabinet on 8 December 2022.

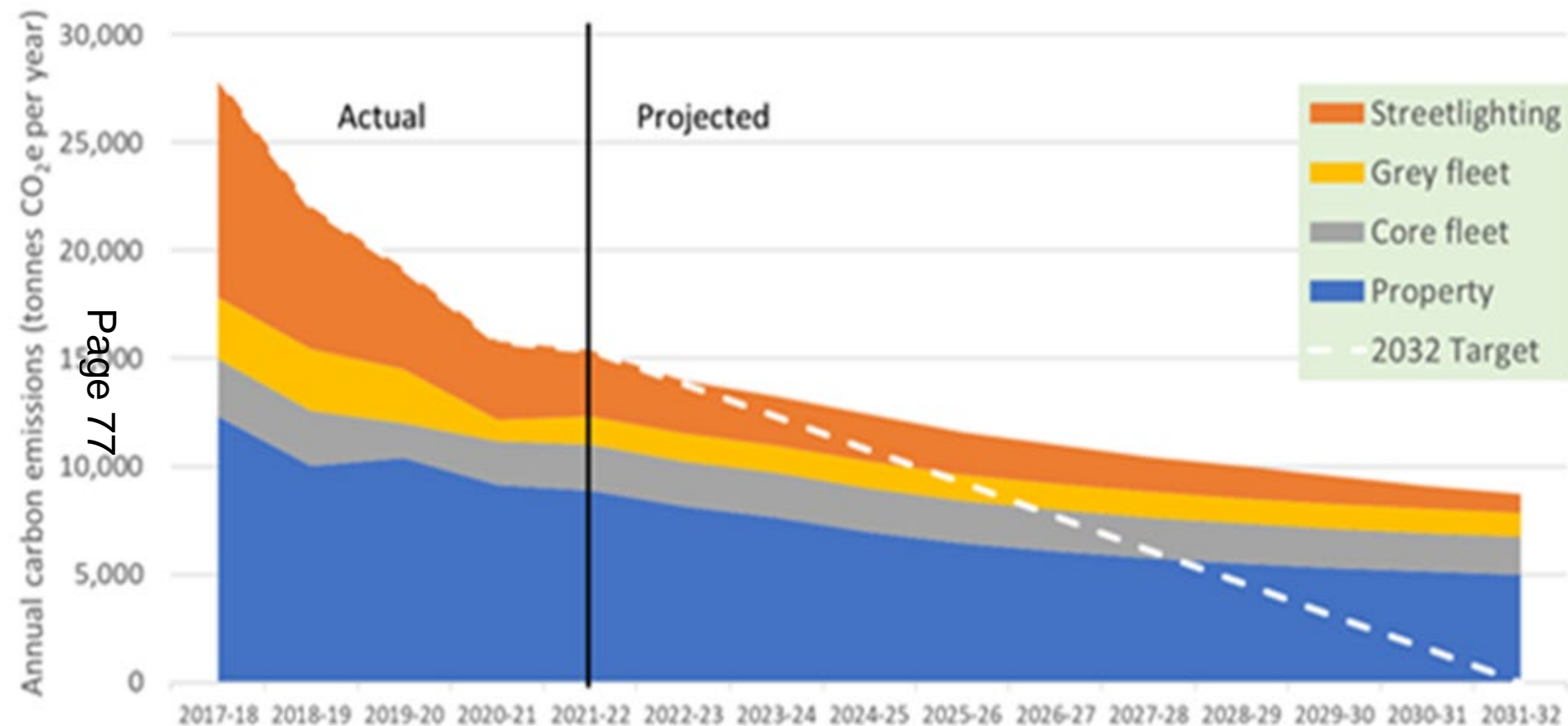
Report Structure

1. Relevant national and regional policy, legislation and governance changes and updates over the past 12 months.
2. Progress being made against the Council's net zero target of 2032, or sooner, and the county's net zero target of 2050.
3. Progress being made against each target and action within the Strategy
4. Details on other key projects, initiatives and schemes that are contributing to the Council's climate change agenda.

Policy and governance changes

1. Net Zero Strategy: Build Back Greener
2. Environment Act 2021
3. Updated Building Regulations for England
4. East Midlands Devolution Deal
5. Cost of living

Council Emissions



64% reduction in emissions between 2009/10 and 2021/22

1% reduction in emissions between 2020/21 and 2021/22

Council Emissions – Key Points

	Greenhouse Gas Emissions 2009-10 to 2018-19 (tonnes CO ₂ e)				
Year	Property (excl. schools)	Street & road lights	Core Fleet	Grey Fleet	Total (excl. schools)
2009-10 (baseline)	15,666	18,121	4,590	4,590	42,966
2020-21	9,126	3,667	2,026	989	15,807
2021-22	8,861	3,070	2,140	1,307	15,378

Property: 43% reduction since 2009/10, 3% reduction since 2020-21

Streetlighting: 83% reduction since 2009/10, 16% reduction since 2020/21

Core Fleet: 53% reduction since 2009/10, 6% increase since 2020/21

Grey Fleet: 71% reduction since 2009/10, 32% increase since 2020/21

Council Emissions Projections

- Modelling undertaken based on confirmed and planned activities and strategies.
- There will be a potential shortfall in the necessary emissions reduction of **8,710 tonnes CO₂e** by 2031/32.
- Almost 60% of these residual emissions will be from the Council's corporate estate.
- Some of these residual emissions are likely to be offset through renewable energy generation and carbon sequestration (tree planting etc).
- However, the focus needs to remain on reducing emissions.

Steps being taken

- **Corporate Property:** Commissioning of external specialist support to help with the preparation of a Carbon Reduction Strategy (Corporate Property) to 2032. Exploration of heat decarbonisation opportunities.
- **Streetlighting:** LED replacement programme completion.
- **Core Fleet:** Vehicles replaced by the most energy efficient alternatives. Installation of new charging infrastructure at Council offices and depots is crucial and being explored.
- **Grey Fleet:** Schemes to increase the number of staff using pool car EVs and personal EVs, behaviour change to reduce mileage.

Derbyshire Emissions

- County-wide target to reach net zero by 2050.
- Annual data provided by BEIS (2020 most recent data set).
- 99% of emissions are outside the County Council's direct control.
- 44% of emissions come from the county's industrial sector.
- 7% reduction in county emissions between 2019 and 2020, with the biggest reductions seen in transport (-18%) and commercial (-10%) sectors.
- Approx. 34% reduction in county emissions between 2005 and 2020.

DERBYSHIRE'S EMISSION REDUCTION TARGET

2025	-47%
2030	-63%
2035	-72%
2040	-81%
2045	-91%
2050	-100%

Targets - Overview

Strategy Theme	Good	Review	Action
Council Estate and Operations	4	2	2
Low Carbon Economy	3	3	0
Decarbonising the Domestic Sector	2	1	1
Transport, Travel and Infrastructure	2	1	3
Waste	1	1	1
Total	12	8	7

ACTION rated targets:

- The Council will switch its existing electricity tariff to a 100% renewable electricity tariff by 2023 with an optional buy-in for schools.
- Reduce emissions from heating buildings to less than 700tCO₂e by 2032.
- All existing owner occupier domestic properties EPC rating C by 2035.
- Double the number of people cycling regularly as a mode of transport from 106,000 in 2016 to 212,000 by 2030.
- Reverse the decline in bus travel and increase total journeys to 30 million per year by 2023 (from 21 million in 2019).
- Reduce HGV emissions in the county by 50% by 2035 against baseline.
- Reduce household waste production by 20% by 2025 against 2015 baseline.

Priority Actions - Overview

Strategy Theme	Good	Review	Action
Council Estate and Operations	6	2	1
Low Carbon Economy	2	5	0
Decarbonising the Domestic Sector	3	3	0
Transport, Travel and Infrastructure	4	2	0
Waste	2	2	0
Total	17	14	1

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ACTION rated priority action:

- Deliver Public Sector Decarbonisation Schemes and evaluate to inform further work.

Steps also being taken to bring the 14 **Review** rated actions back on track, particularly those that have the potentially biggest negative impact on achieving net zero targets if not achieved.

120 Long-List actions reviewed rationalised – now a Long-List of 30

Other achievements this year

- Vision Derbyshire Climate Change Strategy and Action Plan
- Sustainable Procurement Policy
- Single Use Plastics Policy and Action Plan
- Renewable Energy Study
- Natural Capital Strategy
- Climate Change Risk, Resilience and Adaptation
- Decarbonising Derbyshire's housing
- Derbyshire Youth Network Climate Change Action Plan

Concluding Points

- To-date, the Council has made good progress towards its net zero target.
 - However, the speed of reduction is slowing and a shortfall is possible based on confirmed and planned activities.
 - Further effort is required to reduce emissions, particularly from heating Council buildings and emissions from core and grey fleet.
- Ongoing corporate and political commitment is needed to ensure the necessary speed of action.
- A significant number of targets and actions are on track, and action is being taken to address any targets and actions currently not on track.
 - The Climate Change and Environment Programme Board will continue to oversee performance.

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FOR PUBLICATION

DERBYSHIRE COUNTY COUNCIL

**IMPROVEMENT AND SCRUTINY COMMITTEE – CLIMATE CHANGE,
BIODIVERSITY AND CARBON REDUCTION**

MONDAY, 28 NOVEMBER 2022

Report of the Executive Director - Place

Vision Derbyshire Climate Change Action Plan

1. Purpose

- 1.1 To present to the Improvement and Scrutiny Committee for Climate Change, Biodiversity and Carbon Reduction the Vision Derbyshire Climate Change Action Plan that has been developed by the Vision Derbyshire Climate Change Officers Group.

2. Information and Analysis

Background

- 2.1 The Vision Derbyshire Climate Change Officers Group has led the development of a joint Vision Derbyshire Climate Change Strategy (2022-2025) (the “Strategy”) to set out what needs to be done to reduce emissions across the County to net zero by 2050, or sooner, and how Derbyshire councils can work to achieve this through a series of ambitions and priorities. The Vision Derbyshire Climate Change Officers Group includes representatives from the county council and all eight Derbyshire district and borough councils.
- 2.2 The Strategy was endorsed by the Vision Derbyshire Joint Committee on 4 April 2022 and approved by Cabinet on 7 April 2022 (Minute No. 92/22 refers). The Strategy is not intended to replace existing individual council climate change strategies and plans, instead it complements these and sets out key common areas of collaboration.

- 2.3 The Strategy was presented to the Improvement and Scrutiny Committee for Climate Change, Biodiversity and Carbon Reduction on 25 July 2022.

Action Plan

- 2.4 To support delivery of the Strategy, an Action Plan has been developed by the Vision Derbyshire Climate Change Officers Group. The Action Plan contains details of the specific projects and workstreams where Derbyshire councils are seeking to work collaboratively over the next three years (to 2025) to help meet the ambition for Derbyshire to be net zero by 2050. The Action Plan is intended to be a live document used to manage and monitor delivery, and to record priority areas of work as they emerge and evolve.
- 2.5 Aligning with the overarching Strategy, the Action Plan sets out actions for each of the five key themes:
1. Local Authority Estate, Operations and Services
 2. Strengthening the Low Carbon Economy
 3. Decarbonising Derbyshire's Housing
 4. Sustainable Transport, Travel and Infrastructure
 5. Waste and Resources
- 2.6 In addition to the five key themes, the Action Plan includes a series of actions to be taken to help offset the remaining residual emissions to enable Derbyshire to be a net zero county by 2050, and also actions to collaboratively engage with the County's residents, businesses, academic, public, community and voluntary sectors to achieve the net zero ambitions.
- 2.7 Focusing on those areas where the greatest impact is likely, in terms of carbon reduction and wider co-benefits, as well as those areas where the potential positive impact is maximised through councils working collaboratively, a series of priority actions have been identified for initial focus, these being:
- **Renewable and low carbon energy** – Collaborative research, plans and ongoing action around the decarbonisation of the public estate, including opportunities and locations for the installation of renewable energy generation technologies on council-owned buildings and land.
 - **Planning** – Working together to develop appropriate guidance, policy and frameworks to ensure that planning measures for net zero buildings are integrated into Local Plans and wider planning activities. To include aspects around Natural Capital and Biodiversity Net Gain.

- **Housing retrofit** – Supporting the acceleration of the retrofitting of homes across the county, including working with partners, communities and residents to understand priorities and co-deliver solutions, and the development and delivery of a pipeline of retrofitting activities across the County, making effective use of funding streams and opportunities.
- **Electric Vehicles** – Working together to accelerate the shift to electric vehicles through improving charging point infrastructure and promoting the uptake in these vehicles, with a particular focus on facilitating a growth in charging infrastructure in areas where there is little or no commercial viability (such as on-street charging).
- **Waste behaviour change** – Collaborative messaging and campaigns focussed on minimising waste and recycling and disposing of waste appropriately and correctly.
- **Tree planting** – Working together to develop and implement a tree planting programme across the county. Including considerations around carbon sequestration and Natural Capital.

2.8 In addition to these priority actions, a series of supplemental actions have been established against each theme within the Action Plan. Councils will also work together to identify and prepare for external funding opportunities and maximise collective success in securing funding and other support for delivering actions.

Action Plan Delivery

- 2.9 To ensure successful and effective delivery of the Action Plan, and the overarching Strategy, a mapping exercise is now underway to establish what activity is already happening under each theme, and identify any groups and forums that already exist and are leading on, or contributing to, themes or actions in the Action Plan. This activity will be completed by the end of December 2022, allowing for delivery plans, leads, milestones and specific deliverables and success measures to then be established for the actions.
- 2.10 It is anticipated that the Vision Derbyshire Climate Change Officers Group will, for most actions, have a coordinating, influencing and oversight role, using this to foster collaboration with and across existing working groups, partners, citizens, businesses and communities.
- 2.11 The Action Plan will be reviewed fully on an annual basis by the Vision Derbyshire Climate Change Officers Group to ensure that the councils are continuing to focus on and develop the appropriate climate actions necessary to achieve the net zero targets. A short annual report will be produced to summarise progress against delivery of the Action Plan. This report will be presented to the Vision Derbyshire Climate Change

Lead Members and Portfolio Holders Group and the Council's Climate Change and Environment Programme Board, ensuring oversight and accountability of activities and projects being delivered.

3. Consultation

- 3.1 The Action Plan has been developed through consultation between officers from the County Council and all Derbyshire district and borough councils via the Vision Derbyshire Climate Change Officers Group, and with Elected Members through the Vision Derbyshire Lead Members and Portfolio Holders Group. There is no statutory duty to consult on this document. However, it is the intention to consult more widely with Derbyshire businesses and communities on the delivery mechanisms of the Action Plan where relevant and appropriate.
- 3.2 The Action Plan was endorsed by the Vision Derbyshire Climate Change Lead Members and Portfolio Holders Group on 17 October 2022.

4. Alternative Options Considered

- 4.1 **No Action:** The Climate Change Act 2008 (amendment 2019) commits the UK to a legally binding target to reduce greenhouse gas emissions to net zero by 2050. Derbyshire's councils must, therefore, play their part in reducing emissions and take action to achieve this in line with the targets set out by the UK Government. If the councils were not to take action or work together on the delivery of a joint Strategy and Action Plan, emissions across the County would not reduce sufficiently to achieve the targets.

5. Implications

- 5.1 Appendix 1 sets out the relevant implications considered in the preparation of the report.

6. Background Papers

- 6.1 None identified.

7. Appendices

- 7.1 Appendix 1 – Implications.
- 7.2 Appendix 2 - Vision Derbyshire Climate Change Strategy: Action Plan.

8. Recommendation

That the Committee:

- a) Notes the Vision Derbyshire Climate Change Action Plan that has been developed by the Vision Derbyshire Climate Change Officers Group.

9. Reason for Recommendation

- 9.1 To ensure the Committee understands and supports the climate change work being undertaken with the district and borough councils through Vision Derbyshire, and, through this understanding, help enable the Action Plan and overarching Strategy to be delivered to ultimately help reduce greenhouse gas emissions across the County.

Report Author: **Caroline Toplis**

Contact details: **Caroline.Toplis@derbyshire.gov.uk**

Implications

Financial

- 1.1 The delivery of some of the actions within the Action Plan will have financial implications for the Council. These will be considered on a project-by-project basis.
- 1.2 Following approval at Full Council on 2 February 2022, the Council's climate change programme now has confirmation of its budget for 2022-23 to 2026-27. A summary of which follows:
 - Base Budget: The climate change programme holds a base budget of £0.670m per year for staff costs and project development and delivery.
 - One-Off Budget: A budget of £0.350m per year for 2022-23 and 2023-24, a total of £0.700m is allocated for accelerated project development and delivery. This is to be drawn down from the Earmarked Reserve Fund (see below).
 - Earmarked Reserve Fund: The Revenue Budget Report 2020-21 secured approval for a sum of £4m from the Business Rates Pilot to support capital borrowing to meet the requirements of changes to the vehicle fleet and approaches to help reduce emissions from buildings. This is held by Place in an Earmarked Reserve.
- 1.3 Approval for the allocation of funds from the Reserve is managed by Finance Business Partners and the Climate Change and Environment Programme Board (CCEPB), through the delegated authority of the Executive Director for Place.

Legal

- 2.1 There is no statutory obligation on Derbyshire councils to produce a Climate Change Strategy, however, councils have the power contained in the Local Government Act 2000, Local Government & Public Involvement in Health Act 2007, Sustainable Communities Act 2007 and Localism Act 2011 to engage directly and work with other agencies in helping to tackle climate change.
- 2.2 The delivery of some of the actions within the Action Plan may have legal implications. These will be considered on a project-by-project basis.

Human Resources

- 3.1 The delivery of some of the actions within the Action Plan may have human resource implications. These will be considered on a project-by-project basis.

Information Technology

- 4.1 The delivery of some of the actions within the Action Plan may have information technology implications. These will be considered on a project-by-project basis.

Equalities Impact

- 5.1 The delivery of some of the actions within the Action Plan may have equalities impact implications. These will be considered on a project-by-project basis.

Corporate objectives and priorities for change

- 6.1 The Action Plan supports the Council's ambition to be a net zero organisation by 2032, or sooner, and for the County to be net zero by 2050 and informs the action that needs to be taken to achieve these ambitions. The Action Plan supports the delivery of the Council's Climate Change Strategy and the actions and targets within it. The Action Plan will also help deliver the following Council Plan priorities: Resilient, Healthy and Safe Communities; High Performing, Value for Money and Resident-Focused Services; A Prosperous and Green Derbyshire.

Other (for example, Health and Safety, Environmental, Sustainability, Property and Asset Management, Risk Management and Safeguarding)

- 7.1 **Environmental Sustainability**
Delivery of the Action Plan will improve the environmental sustainability of the Council and the county and will reduce greenhouse gas emissions
- 7.2 The delivery of some of the actions within the Action Plan may have other implications. These will be considered on a project-by-project.

Vision Derbyshire Climate Change Strategy: Action Plan

Vision Derbyshire
Climate Change Strategy: Action Plan

Introduction

This document forms the Action Plan to support the Vision Derbyshire Climate Change Strategy (2022-25). It is a live document, which contains details of the specific projects and workstreams where Derbyshire's councils are seeking to work collaboratively over the next three years (to 2025) to help meet the ambition for Derbyshire to be net zero by 2050. The Action Plan will be used to manage and monitor delivery and to record priority areas of work as they emerge and evolve.

Action Plan

The Action Plan is split by the five strategic themes within the Strategy:

- Local Authority Estate, Operations and Services
- Strengthening the Low Carbon Economy
- Decarbonising Derbyshire's Housing
- Sustainable Transport, Travel and Infrastructure
- Waste and Resources.

For each of these five themes, the relevant Vision within the Strategy has been presented alongside a series of priority actions.

In addition to these five themes, areas of collaboration have been identified for carbon offsetting and sequestration, and communication and engagement.

Delivery of the Action Plan will be managed and monitored through the Vision Derbyshire Climate Change Officers Group.

Local Authority Estate, Operations and Services

Vision

Derbyshire's county, district and borough councils will become net-zero carbon organisations that lead by example in implementing and promoting sustainable and low carbon practices in their ways of working and service delivery. This will include ensuring carbon reduction is embedded as a core part of decision-making and commissioning, and improving the energy and carbon efficiency of council buildings, land and fleet, as well as in all of the services that the councils deliver on behalf of Derbyshire's residents. All council employees and suppliers will understand the importance of reducing emissions, and their role in achieving these reductions.

Action Plan

Action Name	Brief Description
PRIORITY FOR	Collaborative research, plans and ongoing action around the

2022/23 – Renewable and low carbon energy	decarbonisation of the public estate, including opportunities and locations for the installation of renewable energy generation technologies on council-owned buildings and land.
Training	The development and delivery of consistent climate change training materials and messaging relevant to all councils in Derbyshire.
Procurement	Development and sharing of approaches to sustainable procurement to ensure environmental and social sustainability is embedded within all contracting and procurement activities.
Fleet	Facilitating low-carbon vehicle fleets across all Councils, including cars, vans and larger vehicles, and the infrastructure to support this.
Funding	Working together to identify and secure funding (such as from central government) for climate change and low carbon projects and initiatives.

Strengthening the Low Carbon Economy

Vision

There will be an acceleration in the transition to a zero carbon economy through low carbon recovery and good growth, the creation of more and better jobs in the low carbon and clean technology sectors, increased skill levels and the fostering of innovation within the county, and a reduction in energy consumption from all industrial and commercial sectors. The natural resources of the county will be rapidly used to expand renewable energy generation across the county.

Action Plan

Action Name	Brief Description
PRIORITY FOR 2022/23 – Planning	Working together to develop appropriate guidance, policy and frameworks to ensure that planning measures for net zero buildings are integrated into Local Plans and wider planning activities. To include aspects around Natural Capital and Biodiversity Net Gain.
Renewable energy	Working together to support the adoption of large-scale and small-scale renewable energy generation in suitable locations.
Low carbon industry and business	Working together to support businesses in the development and implementation of sustainable products, practices and processes, and deliver low carbon innovation.
Skills, employment and training	Working together to support the development and implementation of relevant training courses, and create skilled green jobs in Derbyshire.

Decarbonising Derbyshire's Housing

Vision

Through working with partners and external stakeholder groups, low and zero carbon homes will be created that reduce emissions but also provide economic and wellbeing benefits for our residents. This will be achieved through insulating homes, installing more efficient heating systems, reducing energy consumption, and facilitating behaviour change through the provision of support and information. There will also be support for the growth in green jobs to install these measures, and the councils will play their role in the expansion of small-scale renewable energy generation in the domestic sector.

Action Plan

Action Name	Brief Description
<u>PRIORITY FOR 2022/23 – Retrofitting</u>	Supporting the acceleration of the retrofitting of homes across the county, including working with partners, communities and residents to understand priorities and co-deliver solutions, and the development and delivery of a pipeline of retrofitting activities across the county, making effective use of funding streams and opportunities.
Low carbon technologies and micro-generation	Support the adoption of low carbon technologies (such as low carbon heating) and the adoption of micro-energy generation on homes.
Behaviour change	Collaborative campaigns and messaging to help support households in changing behaviours that lead to a reduction in energy and water use.
Skills, employment and training	Working together to support the development and implementation of relevant training courses, and create skilled green jobs in Derbyshire.

Sustainable Transport, Travel and Infrastructure

Vision

Working with partners and external stakeholder groups, the councils will deliver an ambitious low-carbon integrated transport system across the county that meets the needs of residents in accessing the places they work, live and socialise as well as improving air quality and delivering health and wellbeing benefits for Derbyshire's residents. Derbyshire's flexible, accessible, affordable and integrated transport system will enable everyone to make their journeys through active travel (walking and cycling), public transport or zero or low carbon private vehicles.

Action Plan

Action Name	Brief Description
<u>PRIORITY FOR</u>	Working together to accelerate the shift to electric vehicles

2022/23 – Electric Vehicles	through improving charging point infrastructure and promoting the uptake in these vehicles, with a particular focus on facilitating a growth in charging infrastructure in areas where there is little or no commercial viability (such as on-street charging).
Active travel	Working together to improve Derbyshire’s walking and cycling infrastructure and promote behaviour change and a shift to active travel.
Public transport	Working together and with partners to improve public transport services and promote an increase in usage.

Waste and Resources

Vision

Derbyshire will have a more sustainable and circular economy-based system of resource management, where the councils place high value on our natural resources, whilst seeking to reduce our consumption and generation of resource and waste. The councils will encourage and work with others to establish innovative approaches to waste diversion, reuse and recycling.

Action Plan

Action Name	Brief Description
<u>PRIORITY FOR 2022/23 – Behaviour change</u>	Collaborative messaging and campaign focussed on minimising waste and recycling and disposing of waste appropriately and correctly
Diversion from landfill	Working together to increase levels of reuse and recycling across the county, and improving consistency in approaches to recycling household waste.

Other areas

In addition to projects and workstreams aligned to the five main theme within the Strategy, councils will work together to play their part in the delivery of additional areas of work, including:

Projects and initiatives focussed on carbon offsetting and sequestration:

- **PRIORITY FOR 2022/23 – Working together to develop and implement a tree planting programme across the county. Including considerations around carbon sequestration and Natural Capital.**
- Working together to establish a common approach to collating, categorising and reporting carbon sequestration and offsetting data.
- Work with partners and wider stakeholder groups to restore the county's peatlands and grasslands.
- Promote the adoption of sustainable farming practices which increase carbon sequestration by plants and soil and lead to fewer negative environmental impacts.
- Promote and facilitate an increase in green spaces and tree coverage in urban areas.
- Continue to work together to develop and deliver the Derbyshire Natural Capital and Biodiversity Strategy.
- Work with partners and wider stakeholders to monitor and further explore improvements and expansion of Carbon Capture, Utilisation and Storage (CCUS) technologies to understand how these options could be deployed at scale.

Communication and engagement:

- Work with partners and wider stakeholder groups to establish a shared understanding of what could, and should, be done in Derbyshire to tackle climate change.
- Give all individuals and groups the opportunity to shape how this challenge is addressed and play their part in reducing emissions.
- Develop meaningful and inclusive messaging and engagement that leads to outcomes and results.

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Vision Derbyshire Climate Change Action Plan

Improvement and Scrutiny Committee – Climate Change, Biodiversity and Carbon
Reduction

28 November 2022

Overview

- Vision Derbyshire Climate Change Strategy (2022-2025) approved by Cabinet on 7 April 2022.
- Action Plan endorsed by the Vision Derbyshire Lead Members and Portfolio Holders Group on 17 October 2022.
- Developed by the Vision Derbyshire Climate Change Officers Group.

VISION
||| DERBYSHIRE |||

Action Plan Overview

Aligned with the overarching Strategy, the Action Plan sets out actions for each of the five key themes:

1. Local Authority Estate, Operations and Services
2. Strengthening the Low Carbon Economy
3. Decarbonising Derbyshire's Housing
4. Sustainable Transport, Travel and Infrastructure
5. Waste and Resources

Also a series of actions related to offsetting and communication and engagement.

Criteria for Action Development

- Where the greatest impact is likely, in terms of carbon and cost reduction and wider co-benefits
- Where the potential positive impact is maximised through councils working collaboratively
- Where there are shared pressures, targets and ambitions
- Where there is a real or potential market failure
- Where wider partnership working and influence is needed

Priority Actions

- Renewable and Low Carbon Energy
- Planning
- Housing Retrofit
- Electric Vehicles
- Waste Behaviour Change
- Tree Planting



Next Steps

- Mapping exercise to establish existing activity and to inform the development of delivery plans.
- Vision Derbyshire Climate Change Officers Group will, for many actions, have a coordinating, influencing and oversight role.
- Reviewed fully on an annual basis with a short report to summarise progress against delivery of the Action Plan.



FOR PUBLICATION

DERBYSHIRE COUNTY COUNCIL

**IMPROVEMENT AND SCRUTINY COMMITTEE – CLIMATE CHANGE,
BIODIVERSITY AND CARBON REDUCTION**

MONDAY, 28 NOVEMBER 2022

Report of the Executive Director - Place

The Council's Role in Decarbonising Derbyshire's Housing

1. Purpose

- 1.1 To provide an update to the Improvement and Scrutiny Committee for Climate Change, Biodiversity and Carbon Reduction on the work being undertaken by the Council to understand the motivations and barriers experienced by homeowners when considering improving the energy efficiency of their homes and to co-design and co-deliver a programme of activities to support homeowners to undertake energy efficiency work.

2. Information and Analysis

Background

- 2.1 According to the UK's Climate Change Committee, the UK's legally-binding climate change targets will not be met without the near-complete elimination of greenhouse gas emissions from UK buildings. Emissions from UK homes accounts for around a fifth of total UK emissions. Direct emissions from UK's 29 million homes reduced by about 17% from 1990 to 2020, although this has not been a steady reduction. Emissions reductions have recently stalled with energy use in homes actually increasing between 2016 and 2017. Between 2022 and 2050, emissions from residential buildings need to fall to zero at a rate of 3.4% per year based on current emissions levels.

- 2.2 Since 2020, local authorities in Derbyshire have been successful in gaining funding through the Social Housing Decarbonisation Fund and the Sustainable Warmth Competition to retrofit homes in the social housing sector, private rented sector, and homeowners in fuel poverty. In addition, support has also been available for a number of years through the Healthy Homes Project to improve the thermal performance of the privately owned homes where the homeowner is in fuel poverty and has an existing health problem made worse by the cold. The Warmer Derby and Derbyshire Helpline provides advice to residents on energy bills and energy efficiency.
- 2.3 Little work is being done with homeowners who are not in fuel poverty, many of whom would like to increase the energy efficiency of their home but are unsure of the steps to take for their property and personal situation.
- 2.4 Around 60% of Derbyshire's homes are EPC (Energy Performance Certificate) rated D or below indicating that they are poorly performing and also demonstrating the scale of the housing decarbonisation issue in Derbyshire. Data¹ shows that in all districts, except South Derbyshire, annual emissions from gas consumption in homes in the County are higher than the England average: South Derbyshire is comparable with the England average. Almost a fifth of homes in Derbyshire are not on the gas grid and are often heated using less efficient oil or LPG. Overall, households in areas with less deprivation emit more greenhouse gas emissions and arguably should be a focus for a housing decarbonisation initiative in order to have the biggest impact on emissions reduction.
- 2.5 Officers from local authorities across Derbyshire, under the Vision Derbyshire umbrella, along with officers from two Nottinghamshire councils and Midlands Net Zero Hub are working together to engage residents to understand what support is needed to enable them to make their homes fit for the future. Officers received training through the UK:100 Local Climate Engagement Programme on community engagement along with continued consultant support to deliver the engagement activities. Recognising that reducing carbon emissions in Derbyshire is not something that councils can do alone, the engagement will result in a co-designed programme of activities to support the retrofitting of homes which will be co-delivered by local authorities and community groups. Whilst it is possible to anticipate some of the recommendations that might emerge from the engagement,

¹ [LA Reports](#) | [PBCC \(carbon.place\)](#)

it is important to engage with residents to fully understand what support is needed and how this can be co-designed and co-delivered.

- 2.6 Community engagement activities are underway across the County including on-line meetings and consultations and face-to-face events either with structured questions or a more general discussion from which key themes are identified. District and borough councils and the County Council are undertaking independent activities, the outputs of which will be collated to provide a single overview and to develop a programme of activities moving forward which will be co-delivered by councils and communities to support homeowners.
- 2.7 Businesses with the skills and experience to retrofit homes are already under high demand from the work generated by the social housing retrofitting programmes. There is, therefore, a need to develop the supply chain and give businesses the confidence to invest in training and skills development. This includes developing the technologies and increasing the number of installers, whilst also ensuring there are also sufficient qualified energy assessors and coordinators. Initial discussions with Economic Development colleagues and other key stakeholders indicate that significant input is needed to address this market failure to promote skills and training development and to give the sector confidence to invest in this area. The Council is also working with Midlands Net Zero Hub (formerly Midlands Energy Hub) to enable a comprehensive regional approach is taken on this issue.

Moving Forwards

- 2.8 Engagement activities will continue until early January 2023. Early analyses of the feedback show a number of key themes emerging:
- Provision of a One-Stop Retrofit Shop or advice centre providing impartial advice, retrofit assessors, and potentially retrofit coordinators.
 - Coordination of Eco-Homes open days potentially focusing on Derbyshire housing archetypes.
 - Bulk purchase of materials by the Council to enable savings to be passed on to households, e.g. insulation, solar panels.
 - Derbyshire housing archetype case studies and good practice guidance.
 - Recommended retrofitting traders through a Trusted Trader scheme.
 - Local information provided through a website (potentially Everybody's Talking About Climate Change).
 - Expo showcasing event held for local retrofitting companies.

- 2.9 By March 2023, options papers, a programme of activities and business plans, where necessary, will be developed by the group for delivery by individual councils and communities. Proposals will be presented to Vision Derbyshire providing oversight and approvals will be sought by individual local authorities as appropriate.

3. Consultation

- 3.1 Close collaboration between district and borough councils and other key stakeholders has resulted in the consultation with Derbyshire residents.
- 3.2 Consultation has also taken place with the Vision Derbyshire Climate Change Officer Group and the Vision Derbyshire Climate Change Portfolio Holder/Lead Member Meeting.

4. Alternative Options Considered

- 4.1 No action: Taking no action to support homeowners to undertake energy efficiency measures would not support the urgent need to reduce greenhouse gas emissions to reach the Council's target to achieve net zero emissions across the County by 2050, or address the current market failure in the retrofitting industry.

5. Implications

- 5.1 Appendix 1 sets out the relevant implications considered in the preparation of the report.

6. Background Papers

- 6.1 None identified.

7. Appendices

- 7.1 Appendix 1 – Implications.

8. Recommendation

That the Committee:

- a) Notes the work being undertaken by the Council to understand the motivations and barriers experienced by homeowners when considering actions to improve the energy efficiency of their homes and to co-design and co-deliver a programme of activities to support homeowners to undertake energy efficiency work.

9. Reason for Recommendation

- 9.1 To ensure the Committee understands and supports the work being undertaken on the above.

Report Author: Denise Ludlam **Contact details:** Denise.Ludlam@derbyshire.gov.uk

Implications

Financial

- 1.1 The delivery of some of the proposed activities emerging from the consultation may have financial implications for the Council. These will be considered on a case-by-case basis.
- 1.2 Following approval at Full Council on 2 February 2022, the Council's Climate Change Programme now has confirmation of its budget for 2022-23 to 2026-27. A summary of which follows:
 - Base Budget: The Climate Change Programme holds a base budget of £0.503m per year for staff costs and project development and delivery.
 - A further allocation of £0.350m per year for 2022-23 and 2023-24, (a total of £0.700m) has been allocated for accelerated project development and delivery. This is to be funded from the Climate Change Earmarked Reserve (see below).
 - Climate Change Earmarked Reserve: The Revenue Budget Report 2020-21 secured approval for a sum of £4m from the Business Rates Pilot to support capital borrowing to meet the requirements of changes to the vehicle fleet and approaches to help reduce emissions from buildings. This is held by Place in an Earmarked Reserve.
- 1.3 Approval for the allocation of funds from the Reserve is managed by Finance Business Partners and the Climate Change and Environment Programme Board (CCEPB), through the delegated authority of the Executive Director - Place.
- 1.4 The equivalent of £0.045m was awarded to the Council from the UK:100 Local Climate Engagement Programme which has provided training and support to local authority officers as set out in section 2.5 of this report.

Legal

- 2.1 There is no statutory obligation on the County Council to undertake work to support homeowners to undertake energy efficiency measures on their homes.

- 2.2 The delivery of some of the proposed activities emerging from the consultation may have legal implications for the Council. These will be considered on a case-by-case basis.

Human Resources

- 3.1 The delivery of some of the proposed activities emerging from the consultation may have human resource implications for the Council. These will be considered on a case-by-case basis.

Information Technology

- 4.1 The delivery of some of the proposed activities emerging from the consultation may have information technology implications for the Council. These will be considered on a case-by-case basis.

Equalities Impact

- 5.1 An Equalities Impact Assessment will be undertaken on the proposals resulting from the consultation. Considerable funding is being directed to improving the energy efficiency of social housing, the private rented sector, and privately owned homes where the household is in fuel poverty. This work is being delivered by the district and borough councils.

Corporate objectives and priorities for change

- 6.1 Through supporting homeowners to improve the energy efficiency of their homes, the project supports three of the key priorities in the Council Plan ('resilient, healthy and safe communities', 'high performing, value for money and resident focused services' and 'a prosperous and green Derbyshire'). It also supports the Council's commitments to tackling climate change, as set out in the Derbyshire County Council Climate Change Strategy (2021-2025).

Other (for example, Health and Safety, Environmental, Sustainability, Property and Asset Management, Risk Management and Safeguarding)

- 7.1 Implementation of findings from the project will improve environmental sustainability through reducing greenhouse gas emissions from the domestic sector.

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Climate Change, Biodiversity and Carbon Reduction I & S Committee
2022/23 Work Programme

Monday 13 February 2023			
Topic	Lead Officers	Purpose	Portfolio Holder
Derbyshire Natural Capital and Biodiversity Strategy	Claire Brailsford Caroline Toplis	To consider the outputs and findings from the Natural Capital Strategy, including steps for its implementation.	Cllr Barry Lewis
The council's role in the growth of low carbon skills, employment and training	Joe Battye	To review the work that the Council is undertaking with partners to promote and facilitate the growth of low carbon skills and employment across the county.	Cllr Tony King
Alignment of waste policies with carbon reduction ambitions	Claire Brailsford	To consider and review how the Council's and county's waste management policies and procedures are aligned with and supporting climate change targets and ambitions.	Cllr Renwick
Sustainable procurement	Peter Handford	To review the implementation and impact of the Council's new sustainable procurement policy	Cllr Spencer
Performance Dashboard	Claire Brailsford Caroline Toplis	To receive quarterly performance dashboard report (Q3 2022/23)	Cllr Barry Lewis
Decarbonising Property	David Beard	A short report to update on the targets	
Monday 22 May 2023			
Topic	Lead Officers	Purpose	Portfolio Holder
The council's role in decarbonising Derbyshire's schools	TBC	To review the work that the Council is undertaking with schools and wider partners to help decarbonise the county's schools and embed and promote environmental education	
The council's role in decarbonising Derbyshire's housing	Claire Brailsford	To review the work that the Council is undertaking with district and borough councils, and wider partners and communities to help decarbonise all sectors of Derbyshire's housing stock	

Single Use Plastics Policy and Action Plan	Claire Brailsford/ Peter Handford	To review the implementation and impact of the Council's Single Use Plastics Policy and Action Plan	Cllr Spencer
Performance Dashboard	Claire Brailsford Caroline Toplis	To receive quarterly performance dashboard report (Q4 2022/23)	Cllr Barry Lewis