

Public Document Pack



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PUBLIC

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

Friday, 3 February 2023

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, 13 February 2023** in Committee Room 1, 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 28 November 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. The Council's Role in the Growth of Low Carbon Skills, Employment and Training (Pages 7 - 32)

6. Climate Change Performance Reporting - 2022-2023 Q3 (Pages 33 - 70)

7. Progress Report for Property Decarbonisation - Review of Carbon Reduction targets (Pages 71 - 84)

8. Work Programme (verbal update)

PUBLIC

MINUTES of a meeting of **IMPROVEMENT AND SCRUTINY COMMITTEE – CLIMATE CHANGE, BIODIVERSITY AND CARBON REDUCTION** held on Monday, 28 November 2022 at Council Chamber, County Hall, Matlock.

PRESENT

Councillor W Major (in the Chair)

Councillors R Redfern, B Bingham, S Bull, A Clarke, M Ford, A Hayes, T Kemp, G Kinsella and D Taylor.

Officers present: Claire Brailsford (Director - Environment & Transport), Denise Ludlam (Climate Change Officer), Juliette Normington (Democratic Services Officer) and Caroline Toplis (Programme Manager - Climate Change).

39/22 DECLARATIONS OF INTEREST

There were no declarations of interest.

40/22 MINUTES OF PREVIOUS MEETING

RESOLVED – to confirm the non-exempt minutes of the meeting of the Improvement & Scrutiny – Climate Change, Biodiversity and Carbon Reduction committee held on 10 October 2022.

41/22 PUBLIC QUESTIONS

There were no public questions.

42/22 CLIMATE CHANGE STRATEGY: ANNUAL REVIEW OF PROGRESS

Caroline Toplis, Programme Manager – Climate Change introduced the report, which had been circulated in advance of the meeting and which provided an annual summary of progress against the delivery of Derbyshire County Council Climate Change Strategy and the Council's net zero targets. The report provided a summary of the relevant national and regional policy, legislation and governance changes and updates, the progress made against the Council's net zero targets and each target and action within the Strategy, plus details on other key projects, initiatives and schemes.

The report was accompanied by a presentation and highlighted elements and a breakdown of the Cabinet Annual report, which gave a summary

of progress against delivery. Key points from the report showed reductions in property, streetlighting and fleet carbon emissions however, progress was slowing and the Council was facing a potential shortfall in necessary emissions by 2021/32. These could be offset through renewable energy however the focus needed to remain on reducing emissions and the steps being taken towards this were discussed.

The Committee recognised that a lot had already been achieved however there were still some challenges ahead including the nationally recognised issue of the lack of bicycle infrastructure and the setting of more ambitious, local targets. To aid understanding, Committee again requested that emission targets be expressed in more tangible ways rather than tonnage.

RESOLVED to:

1. Note 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;
2. Note 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;
3. Note the progress being made against each target and action within the Strategy;
4. Note the other key projects, initiatives and schemes that are contributing to the Council's climate change and wider sustainability agenda and objectives.

43/22 VISION DERBYSHIRE CLIMATE CHANGE ACTION PLAN

Caroline Toplis, Programme Manager – Climate Change introduced the report, which had been circulated in advance of the meeting and which presented the Vision Derbyshire Climate Change Action Plan. This provided further understanding of and supported the climate change work being undertaken with the district and borough councils through Vision Derbyshire and to enable the Action Plan and overarching Strategy be delivered to help reduce greenhouse gas emissions across the County. The report was supported by a presentation.

The Plan set out actions for each of the five key themes and a series of actions related to offsetting and communication and engagement,

together with the priority actions. Next steps were to complete a mapping exercise to establish existing activity and to inform the development of delivery plans. The Vision Derbyshire Climate Change Officers Group would have a co-ordinating, influencing and oversight role for the most part.

Committee members raised a number of concerns currently being faced. Fast charging hubs and street furniture were some of the many options being considered to deal with the impracticability of charging electric cars and the Planning Guide was to become a nationally recognised document to assist with planning regulations. Local and district councils were on board however it was recognised that this was a work in progress but resources were limited and that work needed to be done in some instances.

RESOLVED to note the Vision Derbyshire Climate Change Action Plan that had been developed by the Vision Derbyshire Climate Change Officers Group.

44/22 THE COUNCIL'S ROLE IN DECARBONISING DERBYSHIRE'S HOUSING

Denise Ludlum, Climate Change Officer 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 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.

The report was supplemented by a presentation which outlined the issues faced and the demand for support for private homeowners.

Some progress had been made and a number of themes had emerged. Early feedback had indicated a number of support options from which a draft programme of activities would be co-delivered as soon as possible.

Committee members expressed their concerns around what was currently available to homeowners and the costs involved, resulting in only a limited number of homeowners being in a position to afford the retrofit costs. They recognised that the consultation process was still taking place and the limited resources, budget constraints and priorities experienced by the climate change team.

RESOLVED to note 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.

45/22 **WORK PROGRAMME**

Members were invited to consider the work programme for the remainder of 2022/23. It was recognised that the agendas for each of the next two meetings were full and that no further items should be added at this stage. Members were invited to submit future items for consideration to the Clerk.

RESOLVED to note the 2022/23 work programme.

The meeting finished at 4.15 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

13 February 2023

Report of the Executive Director - Place

**THE COUNCIL'S ROLE IN THE GROWTH OF LOW CARBON SKILLS,
EMPLOYMENT AND TRAINING**

1. Purpose

- 1.1 The purpose of this report is to provide an overview of the Council's role in the growth of low carbon skills, employment, and training in Derbyshire. The content of the report will be supplemented by a presentation at the meeting that provides more detail on the key work programmes currently being delivered.

2. Information and Analysis

- 2.1 The Council's ambitions to de-carbonise the Derbyshire economy and grow the local skills offer are well publicised and set out in key documents such as the COVID Economic Recovery Strategy which was launched in January 2021 and more recently, the Climate Change Strategy: Achieving Net Zero (2021-2025) which was approved at Cabinet in October 2021 and Vision Derbyshire Climate Change Strategy: 2022 – 2025 which was approved in April 2022. Within the context of a proposed combined authority for the area, it's likely additional strategies and plans for skills will emerge
- 2.2 The Climate Change Strategy contains 28 priority targets across five key areas (four county-wide, one concerning the Council's estate and operations) which commits DCC to delivering net zero buildings, expanding local renewable energy generation, changing transport choices, generating green jobs, and preventing waste being sent to landfill, and to benefit the local economy. These targets are supported

by over 120 actions, initiatives, and projects which we anticipate Derbyshire County Council will either lead or support. DCC want to enable and empower our partners, residents, and businesses to take action to tackle climate change.

- 2.3 The COVID Recovery Strategy has been a key driver for DCC's role in the growth of low carbon skills, employment, and training and sets out the employment and skills priorities of:
- Young People - developing clear progression pathways
 - Adults – realigning labour market, retraining and routes to employment
 - Responding to Future Skills Needs – responsive skills system
 - Entrepreneurship and Self Employment - stimulate enterprise and business growth
- 2.4 The presentation to Scrutiny Committee will explore:
- Strategic Context
 - The Council's role – strategically and operationally
 - Challenges and opportunities
 - Highlight examples of good practice
- 2.5 The skills arena is large and complex and requires DCC to interact with different audiences and take on different roles. These roles include:
- Facilitator – bringing key partners together (Job Centre Plus, local authorities, colleges, employers, LEP)
 - Voice – the identifies the issues, joins up the partners and brokers solutions
 - Delivery – Adult Careers team, Adult Community Education (DACES), Multiply programme
 - Funder – Green Entrepreneurs, Youth Hub, I Step up
- 2.6 A number of different partners operate within this area working towards the same/ similar goals: local authorities, the D2N2 LEP, colleges, universities, training providers, employers, and the labour market. This is further complicated by the various funding regimes which need to be navigated; these include European funding, ESFA (coming to an end), Government sources (e.g. adult education budget), grant schemes (e.g. Multiply), local authority money (e.g. Green Entrepreneurs and UKSPF)
- 2.7 Derbyshire County Council officers, in their 'facilitator' role, provide support and advice to local businesses – either those already working in the low carbon/ green sector or those looking to de-carbonise. Examples include advanced manufacturing businesses such as Worcester Bosch, based at Clay Cross and Vaillant, based at Belper. This will be covered in more detail in the presentation.

- 2.8 Others include: a regional contractor for external wall insulation (EWI) and solar PV where the Economic Development Service brokered connections to the Staveley Town Deal and the National Careers Service, helping them to source apprenticeships and 'grow their own talent'; and, the Insulated Render and Cladding Association (INCA) to discuss opportunities for targeted NVQs and brokering links to Chesterfield College and the Staveley Skills Hub.
- 2.9 As a funder, Scrutiny Committee will be aware of the £2m Green Entrepreneurs grant scheme set up by DCC which is made up of three strands:
- Green entrepreneurs small grant fund. This offers grants between £6,000 to £20,000 for projects for alternative energy, clean fuel and carbon reduction projects. There must be a minimum spend of £15,000 and a maximum intervention rate of 40%. There has been £500,000 of the £2m allocated towards this.
 - Green entrepreneurs demonstrator grant fund. This fund is targeting high quality, larger scale carbon-cutting projects in Derbyshire. This is aimed at innovative solutions and has £1.2m allocated towards this.
 - Green entrepreneurs' scholarship fund. This fund is to support individuals to retrain to get the skills to move into low carbon or green skills. It allows people to obtain the skills and qualifications to change or progress employment into 'green jobs'. £100,000 has been allocated towards this and a total of 46 scholarship grants have been awarded.
- 2.10 The green entrepreneurs small grant fund criteria were recently amended to reflect feedback and demand from local businesses looking to reduce their costs, especially with the continuing rise in energy costs. This strand of grant funding now supports low carbon energy solutions such as solar pv and electric vehicle charging at premises. Obviously any increase in such demand from businesses places more demand on the skills system for more manufacturers and qualified installers.
- 2.11 DCC supports Derbyshire residents through funding a Wheels 2 Work (W2W) scheme. This programme, undertaken by Rural Action Derbyshire, helps residents overcome transport barriers to employment and skills. It does so on a case-by-case basis by aiding candidates where access to the training or work base is difficult e.g. due to cost, geography or lack of suitable public transport options. The scheme provides financial support with access to subsidised bus tickets, or through the lease of a cycle or motor scooter.

2.12 The project has seen increased demand from residents and a further pilot is being rolled out as part of the Staveley Town Deal where the aim is to expand the offer at a physical base to access a cycle or motor scooter (both electrically powered) in a location which also provides real-time bus passenger information and has provision for a car pool with charging facilities for electric vehicles. The impact on skill requirements to support this type of provision is clearly evident.

2.13 Below in 2.14 is the progress against the employment and skills element of the COVID Recovery Strategy:

Priority	Action	Progress
Young People: <i>developing clear progression pathways</i>	<ul style="list-style-type: none"> £700k secured to roll out two new Youth Hubs in the next 2 years Over 300 YP supported in year 1 of the Youth Hub Going Forward: Graduate retention programme, Green Skills Academy,	
Adults: <i>realigning labour market, retraining and routes to employment</i>	<ul style="list-style-type: none"> 138 SME businesses (Total businesses all sizes 143) supported to secure 204 apprentices through Levy transfer committing £1.3 m) CRF programme successfully delivered Delivery of £3 m Multiply Programme to support numeracy Adult Careers promoting green skills and GEP to clients Going Forward: enhanced social value through Vision Derbyshire, digital inclusion programme and Digital Skills Strategy (LEP level)	
Responding to Future Skill Needs: <i>responsive skills system</i>	<ul style="list-style-type: none"> Hospitality Charter being rolled out with employers Green Skills development work Festival of Business year 2 launched Development at the National Stone Centre of market leading facility promoting sustainability in Quarrying Going Forward: Freeport Skills Academy, Charters for other Sectors, secure more Apprenticeship Levy from Large Employers to spend to support Derbyshire SMEs	
Entrepreneurship and Self Employment: <i>stimulate enterprise and business growth</i>	<ul style="list-style-type: none"> £2m Green Entrepreneurs Fund Apprenticeship levy transfer supporting SMEs Developing approach to 'enterprising places' – £1m business start up, £1.5m CRF Accelerator delivered Festival of Business year 2 Going Forward: Social enterprise strategy	

2.14 DCC has also been working hard with further education (FE) partners to map the existing 'training offer and revisit the curriculum to embed as much of the 'green skills' agenda as possible within existing courses (e.g. modern methods of construction).

2.15 The Construction Skills Hub is a great example of this. The innovative Construction Skills Hub (Chesterfield College and University of Derby) will provide a practical platform for construction training (with embedded green construction skills, including retro fit), careers activity and work experience on a live construction site in Mastin Moor. Over ten years, the Hub aims to provide training, careers insights, and work experience for over 5,000 learners.

- 2.16 DCC has also delivered £2m to support businesses, employment, and skills through Community Renewal Fund. This was split across two schemes and a more detailed update will be provided in the presentation:
- Derby Business College - £500,000 to develop/deliver/test and evaluate the efficacy of: a) an integrated employment/skills system and b) alternative methods of engagement across classroom /online /blended
 - Derbyshire Accelerator - £1.5m to strengthen the place-based business support ecosystem through: Race to Zero Carbon Accelerator, Digital Transformation Accelerator, Start Up to Scale Up Accelerator, Kickstart Accelerator and Financial Accelerator
 - The project supported
 - 831 people of which 77 gained employment
 - 641 businesses
 - 25 businesses were created
 - 49 Decarbonisation plans completed

3. Consultation

- 3.1 None as a direct result of this report but a wide range of engagement and consultation exercises have taken place with partners (including local authorities, Government departments, colleges, universities and local businesses) in the development of the plans, strategies and projects outlined here.

4. Alternative Options Considered

- 4.1 None directly relevant to this overview but most of the substantive projects identified for supporting low carbon recovery have been subject to 'project development' processes where alternatives have been considered.

5. Implications

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

6. Background Papers

- 6.1 Presentation to Improvement and Scrutiny Committee on 'Accelerating Low Carbon Growth, 28 November 2021

7. Appendices

7.1 Appendix 1 – Implications.

8. Recommendations

8.1 That the Committee:

a) Notes the approach being taken to the Council's role in the growth of low carbon skills, employment and training.

9. Reasons for Recommendations

a) To understand the progress that has been made to date in its roles as a facilitator, voice, delivery agent and funder.

b) To help shape the nature of future low carbon work programmes in the County in the drive to net zero by 2050.

Report Author: Joe Battye, Director Economy and Regeneration

Contact details: joe.battye@derbyshire.gov.uk

Implications

Financial

- 1.1 No financial implications as a direct result of this report. The Council has an agreed budget of £2m to support implementation of the GEF. Applications to this Fund are subject to separate approvals as described in the GEF grant payment stage process. Multiply and Community Renewal-funded projects are support directly through Government grants.

Legal

- 2.1 No legal implications as a direct result of this report. Any such implications are considered in the development of each individual project or programme as part of the development process and are clearly articulated at the point of seeking approval.

Human Resources

- 3.1 No human resource implications as a direct result of this report. Some of the projects outlined in this update have secured additional resources through dedicated project funding through external expertise (e.g. Derby University in supporting the Green Entrepreneurs Fund).

Information Technology

- 4.1 No information technology implications as a direct result of this report.

Equalities Impact

- 5.1 No equalities impact as a direct result of this report but at the stage of project inception and development due consideration is given to potential impacts and mitigations on key groups of people, particularly geographical disparities and those furthest from the job market – which often includes those from ‘protected characteristic’ communities.

Corporate objectives and priorities for change

- 6.1 Delivery of the Economic Recovery Strategy and the Climate Change Strategy have been developed in direct support of the Council Plan objective to deliver a ‘green and prosperous Derbyshire’ and in

particular, to achieve net zero for the Council by 2032 (or sooner) and for the County by 2050.

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

7.1 None

The Council's role in the growth of low carbon skills, employment and training

Scrutiny Committee

13 February 2023



Strategic Context

Skills landscape is complex and multi-layered

- Key players include: local authorities, the LEP, colleges, universities, training providers, employers and the labour market

Funding regimes are also complex

- European funding, ESFA, Government(e.g. adult education budget), grant scheme (e.g. Multiply), local authority (e.g. Green Entrepreneurs)

Multiple plans and strategies – some with a focus on green skills

- D2N2 LEP People & Skills Plan
- New Local Skills Improvement Plan (LSIP)
- COVID Recovery Strategy – Employment and Skills + LA growth strategies
- Climate Change Strategy
- Potential East Midlands Skills Strategy linked to proposed combined authority
- Emerging Strategic Framework for Council to delivery net zero

Multiple ‘moving parts’ examples:

- D2N2 Careers Hub - Careers & Enterprise Company - enterprise advisers etc
- DCC Adult Careers Team
- National Careers Service
- Work coaches

Key Elements for a Low Carbon Economy

Supporting skills and training

Delivering sustainable infrastructure

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Supporting businesses

Adopting and manufacturing new technologies

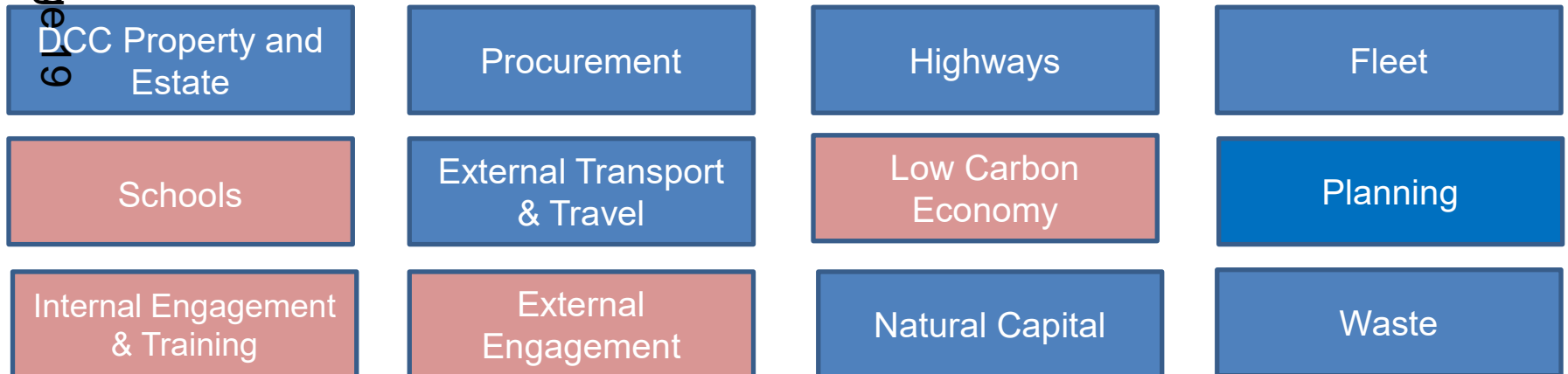
The Council's Role

- **Facilitator** – bringing key partners together (Job Centre Plus, local authorities, colleges, employers, LEP)
- **Voice** – the identifies the issues, joins up the partners and brokers solutions
- **Delivery** – Adult Careers team, Adult Community Education (DACES), Multiply programme
- **Funder** – Green Entrepreneurs, Youth Hub, I Step up

Derbyshire County Council Climate Change Strategy: Achieving Net Zero (2021-2025)

- Strategy approved by Cabinet on 14 October 2021
- Sets out what the Council will do to tackle emissions and achieve net zero targets.
- 32 priority actions, supported by over 120 supplementary actions, initiatives and projects, which the Council will either lead or support.
- Twelve themes established to develop, implement, manage and monitor delivery plans.

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COVID Recovery Strategy

Employment and Skills priorities

- ✓ Young People - developing clear progression pathways
- ✓ Adults – realigning labour market, retraining and routes to employment
- ✓ Responding to Future Skills Needs – responsive skills system
- ✓ Entrepreneurship and Self Employment - stimulate enterprise and business growth

Low Carbon Economy

Sustainable Growth Service:

- Economic development team + Skills and Employment team + Transport team
- Bespoke meetings e.g. manufacturers of low carbon products
- Provide: advice, support for external funding , connections to related services (National Careers Service, Skills Hub) and access to business networks
- Link to key networks and partners

Low Carbon Economy (2)

- Gathering intelligence - number of sources to develop the skills offer
- Identifying core opportunities and challenges
- Developing 'place based' interventions for low carbon – e.g. Freeport (skills academy)
- Businesses concerned about the cost of energy – affecting financial viability (source: Chamber of Commerce)
- Previous Government COVID support scaled back - driving greater interest in cost base and addressing the bottom line
- Focus on reducing energy costs - helps reduce carbon impact
- This intelligence has been used to redesign existing schemes such as the Green Entrepreneur fund.

Showcase: Direct Support to Business:

Examples:

- ✓ Worcester Bosch (Cay Cross)
- ✓ Vaillant Boilers (Belper)
- ✓ Vehicle manufacturing sector
- ✓ Regional contractor for external wall insulation (EWI) and solar PV
- ✓ Insulated Render and Cladding Association

Showcase: Facilitating Low Carbon Employment

- ✓ Supporting funding bids for low carbon transport and travel e.g. hydrogen buses from Local Carbon Growth Fund
- ✓ Supporting low carbon regeneration ambitions e.g. @Peak (leisure, wellbeing and retail) circa 2,000 jobs, journey to zero transport hub

Showcase: Adopting and Manufacturing New Technologies

Green Entrepreneurs:

- £2m fund from the County Council across three strands:
 - Demonstrator grant
 - Small grants
 - Scholarships - 46 scholarship grants totalling £35,457 to support training and green skills. Tend to be focused on heat and energy (plumbing and construction)

Showcase: Skills & Training

Green Skills: Initiating Green Skills Academy

- Working across FE sector
- Mapping existing 'green skills' training offer
- Revisit curriculum to embed as much 'green skills' within existing courses (e.g. modern methods of construction)

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Example: Staveley Town Deal – Construction Hub

The Construction Skills Hub will provide a practical platform for construction training, careers activity and work experience on a live construction site.

The innovative Construction Skills Hub (Chesterfield College and University of Derby) will provide a practical platform for construction training (with embedded green construction skills including retro fit) , careers activity and work experience on a live construction site in Mastin Moor. Over ten years, the hub aims to provide training, careers insights, and work experience for over 5,000 learners.

Showcase: Community Renewal Fund

- ✓ Derby Business College – focus on £500,000 to develop/deliver/test and evaluate integrated employment/skills system
- ✓ Derbyshire Accelerator - £1.5m to strengthen the place-based business support ecosystem through 5 interventions including:
 - ✓ Race to Zero Carbon Accelerator and Digital Transformation Accelerator
- ✓ Evaluation of the project just completed and signed off by Government:
 - ✓ 831 people involved of which 77 gained employment – across 641 businesses
 - ✓ 49 Decarbonisation plans completed

Showcase: Wheels to Work

Wheels to work is a programme to help overcome transport barriers to employment and skills.

- ✓ Candidates are assessed to understand the transport barriers for getting to work or training. This could include cost of transport or a lack of suitable public transport available.

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The scheme can help with a range of interventions including subsidised bus tickets, leasing of a bicycle or motor scooter.

- ✓ Administration of the Wheels to Work scheme is undertaken by Rural Action Derbyshire and funded from County Council revenue support.

- ✓ Through the Staveley Town Deal looking to expand this to offer a physical base in Staveley at which candidates can gain access to a cycle or motor scooter (both electrically powered) at a location which also provides real-time bus passenger information and provision for a car pool with charging facilities for electric vehicles

Priority	Action	Progress
<p>Young People: <i>developing clear progression pathways</i></p>	<ul style="list-style-type: none"> • £700k secured to roll out two new Youth Hubs in the next 2 years • Over 300 YP supported in tear 1 of the Youth Hub <p>Going Forward: Graduate retention programme, Green Skills Academy,</p>	
<p>Adults: <i>realigning labour market, retraining and routes to employment</i></p>	<ul style="list-style-type: none"> • 138 SME businesses (Total businesses all sizes 143) supported to secure 204 apprentices through Levy transfer committing £1.3 m) • CRF programme successfully delivered • Delivery of £3 m Multiply Programme to support numeracy • Adult Careers promoting green skills and GEP to clients <p>Going Forward: enhanced social value through Vision Derbyshire, digital inclusion programme and Digital Skills Strategy (LEP level)</p>	
<p>Responding to Future Skill Needs: <i>responsive skills system</i></p>	<ul style="list-style-type: none"> • Hospitality Charter being rolled out with employers • Green Skills development work • Festival of Business year 2 launched • Development at the National Stone Centre of market leading facility promoting sustainability in Quarrying <p>Going Forward: Freeport Skills Academy, Charters for other Sectors, secure more Apprenticeship Levy from Large Employers to spend to support Derbyshire SMEs</p>	
<p>Entrepreneurship and Self Employment: <i>stimulate enterprise and business growth</i></p>	<ul style="list-style-type: none"> • £2m Green Entrepreneurs Fund • Apprenticeship levy transfer supporting SMEs • Developing approach to ‘enterprising places’ – £1m business start up, £1.5m CRF Accelerator delivered • Festival of Business year 2 <p>Going Forward: Social enterprise strategy</p>	

Going Forward

We've done a lot and we are continuing to do more:

Key areas:

- Page 30
- Continue to develop our county-wide narrative for good growth, our offer to businesses and communities and what this means for skills development
 - Retain focus on 'place' but work hard to draw out the 'people' aspect
 - Develop a clear and shared programme of work: adult education budget (core to devo), Multiply, micro credentials
 - Maximise available funding – devo (AEB), Shared Prosperity Fund, Multiply, future announcements
 - Marry skills development with economic development
 - Share knowledge – build up local intelligence
 - Celebrate achievement



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FOR PUBLICATION

DERBYSHIRE COUNTY COUNCIL

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

MONDAY, 13 FEBRUARY 2023

Report of the Executive Director - Place

Climate Change Performance Reporting - 2022-2023 Q3

1. Purpose

- 1.1 The purpose of this report is to present the Climate Change Programme Dashboard for Quarter 3 2022-2023. The Dashboard has been developed to provide details on performance against delivery of the Council's Climate Change Strategy: Achieving Net Zero (2021-2025) (the 'Strategy').

2. Information and Analysis

- 2.1 The Council's approach to monitoring and reporting on performance against the delivery of the Strategy and overarching carbon reduction targets was presented at a meeting of the Improvement and Scrutiny Committee for Climate Change, Biodiversity and Carbon Reduction held on 7 February 2022.
- 2.2 As set out in the report presented on 7 February 2022, a core mechanism for monitoring and reporting on performance is regular performance reporting to the Climate Change and Environment Programme Board (CCEPB). On a quarterly basis, a Climate Change Programme Dashboard is presented to the CCEPB providing details on performance against delivery of actions within the Strategy.

2.3 The Dashboard is designed in the same format and structure as the Council's Strategic Dashboard, which is used to report on performance against delivery of the Council Plan.

2.4 The Dashboard includes:

- A narrative on which actions are not on track, why, the potential impact, and the mitigations being carried out to get the actions back on track.
- A narrative on overall performance of the Long List actions by 2025 that are likely to have the biggest positive impact on emissions reduction, and those which require the most immediate action and implementation.

3. Consultation

3.1 Details of the mechanisms for monitoring and reporting on performance against delivery of the Strategy was presented to the Improvement and Scrutiny Committee for Climate Change, Biodiversity and Carbon Reduction on 7 February 2022.

3.2 The Performance Dashboard was presented to the CCEPB on 30 January 2023.

4. Alternative Options Considered

4.1 Not applicable.

5. Implications

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

6. Background Papers

6.1 Not applicable.

7. Appendices

7.1 Appendix 1 – Implications.

7.2 Appendix 2 – Climate Change Programme Dashboard 2022-23, Q3

8. Recommendation

That the Committee:

- a) Notes the content of the Climate Change Programme Dashboard detailed in Appendix 2.

9. Reasons for Recommendation

- 9.1 To ensure that monitoring and reporting of performance against delivery of the Strategy and the overarching carbon reduction targets is carried out in an appropriate, meaningful, and effective manner to ensure the Strategy and actions remain on track and are delivered.

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Implications

Financial

- 1.1 The delivery of the actions within the Strategy will have financial implications for the Council. These will be considered on a project-by-project basis.

Legal

- 2.1 Some of the projects required to deliver the actions within the Strategy may have legal implications. These will be considered on a project-by-project basis.

Human Resources

- 3.1 Some of the projects required to deliver the actions within the Strategy may have Human Resource implications. These will be considered on a project-by-project basis.

Information Technology

- 4.1 Some of the projects required to deliver the actions within the Strategy may have Information Technology implications. These will be considered on a project-by-project basis.

Equalities Impact

- 5.1 Some of the projects required to deliver the actions 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 Delivery of the Strategy will improve the environmental sustainability of the Council and the county and in particular, will reduce greenhouse gas emissions.

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




- 7.1 Some of the projects required to deliver the actions within the Strategy may have other implications. These will be considered on a project-by-project basis.

Climate Change Programme Dashboard 2022-23, Q3

Overview

Strategy Theme	Good	Review	Action
Council Estate and Operations	6	3	0
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	15	0

Delivery Theme	Theme Lead	Good	Review	Action
Council Property and Estate	David Beard	3	2	0
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	Mathew Bonomi	4	2	0
Low Carbon Economy	Karl Apps	1	4	0
Planning	David Arnold	2	3	0
Internal Engagement and Training	Sally Pearson	1	0	0
External Engagement	TBC	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	15	0

-  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. No priority actions have been allocated an **Action** rating for this quarter.

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.

15 priority actions (47%) have been allocated a **Review** rating, meaning that there is some risk to achieving timetable and/or outcomes. This is an improvement from the last quarter due to one action (Ref 3) moving from an Action to Review rating.

Of those actions allocated a Review rating, the actions that have the potentially biggest negative impact on achieving net zero targets if not achieved are:

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 and 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.




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


Council Estate and Operations							
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
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.	 (no change)	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 Council's Countryside Service have provided verbal support for the project. The project risk is therefore relatively low. Furthermore, the existing tenant is in the process of vacating the site.</p> <p>Funding has been secured to support further project development work, as necessary, and a capital strategy bid and business case have been submitted to Finance. The project now awaits approval and funding. Other sites that offer potential for future solar farm development will be monitored as well as availability of capacity within the grid.</p>
2	Develop a design standard for future estate development which sets the	Property and Estate	2023	Design standards developed and approved, and	 (no change)	High	<p>GOOD: On track or complete with outcomes in line with expectations</p>



	requirement to develop net zero enabled buildings which can be net zero but also resilient to future climatic changes.			incorporated into formal council policy. Design standards applied on all relevant projects once approved.			Corporate Property has now completed the development of proposed design standards for all new build and refurbishment projects. This work has been endorsed by the Climate Change and Environment Programme Board and will be submitted for Cabinet approval during 2022-23 Q4.
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.	  last quarter)	Moderate	<p>REVIEW: Some risk to achieving timetable and/or outcomes. This is due to difficulties experienced in installing planned low carbon heat technologies, leading to funding being withdrawn, and the need for feasibility studies to inform future opportunities and funding bids.</p> <p>A £1.891m grant was awarded to the Council through the government's Public Sector Decarbonisation Scheme (PSDS) in 2020. This grant was for carrying out low carbon heat schemes at three sites identified through feasibility studies. Applications to the fund are typically based on preliminary feasibilities and therefore carry risk. Two of the three schemes subsequently encountered delays which meant that projects could no longer meet the strict funding deadline requirements and PSDS grant funding was withdrawn. This issue occurred quite frequently across the country, such that the PSDS grant conditions have since been revised.</p> <p>The project at Buxton Junior School is currently underway.</p> <p>The Council has submitted a bid to PSDS Phase 3b for the installation of an Air Source Heat Pump at Alice's View Children's Centre, which is now undergoing assessment by Salix.</p> <p>Mitigation: Corporate Property are analysing potential future PSDS funding bid opportunities and have secured necessary feasibility, design and procurement funding for 2023. Energy audits are currently underway at five sites to complete the necessary preliminary work prior to future PSDS bids.</p>
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	 (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</p>



				analysis of opportunities, costs and benefits carried out.		<p>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>These measures are subject to approval of funding (as part of a capital strategy bid submitted in September 2022), with initial funding already secured for the installation of remote monitoring equipment in three Homes for Older People (HOPs) that are currently undergoing refurbishment. Five further buildings are being scoped for the next phase of remote monitoring equipment installation, subject to funding approval</p>
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)	<p>High</p> <p>REVIEW: Some risk to achieving timetable and/or outcomes. Council fleet EV usage has greatly increased post pandemic, but the limited number of vehicles cannot meet demand for use at present. Grey fleet emissions increased between 2020-21 and 2021-22, demonstrating the need for behaviour change and an increased use of EVs for business travel.</p> <p>Departmental grey fleet emissions reduction targets have been established and approved by CMT. These are now being included in Service Plans for 2023-24. Mechanisms for increasing the use of EVs for business travel are being developed and are likely to include: behaviour change campaigns; the provision of dedicated EVs for services, teams and/or individuals; and a forthcoming staff salary sacrifice scheme for the purchase of EVs and hybrid vehicles.</p> <p>Engagement is underway with Corporate Property to ensure that proposed charging point locations are in Council assets which are not subject to potential disposal and are in suitable locations. Discussions held on the inclusion of charging infrastructure in the depot rationalisation programme.</p>


							Mitigation: Place and Corporate Property are liaising to ensure charging infrastructure is installed in the most effective and appropriate locations. A Low Emissions Vehicle Infrastructure (LEVI) Officer is now in post to coordinate this work.
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	GOOD: On track or complete with outcomes in line with expectations 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 Council website. As part of the Council's use of the Social Value Portal, the National TOMs (Themes, Outcomes and Measures) Framework will be incorporated into Council procurement contracts with the aim of achieving more sustainable value from procurements. The first contract to apply the approach was piloted in Autumn 2022 with the Social Value aspect of the tendering process worth 10% of the overall evaluation of the bid. Following evaluation of this contracting activity, the approach is now being applied on further contracts.
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	GOOD: On track or complete with outcomes in line with expectations The Sustainable Procurement Policy will embed sustainable procurement principles and practice into all procurements and commissioning carried out across the Council.
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	REVIEW: Some risk to achieving timetable and/or outcomes. This is due to price and supply issues in the UK energy market as well the benefits being limited when based on good practice carbon measurement and reporting. Discussions held with the Council's energy supplier in September 2022 indicated that the procurement of a renewable energy tariff for 2023/24 is only available from mixed energy suppliers with a Renewable Energy Certificate. This would not guarantee that the energy purchased is from renewable sources and would not lead to a reduction in the Council's reported emissions from electricity use when following reporting good


							practice. The procurement of a renewable energy tariff is therefore not currently recommended on this basis. Mitigation: Corporate Property's Energy Team will continue to explore options for the alternative procurement of renewable energy ahead of the 2024-25 financial year.
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	GOOD: On track or complete with outcomes in line with expectations Following approval from the CMT, a comprehensive climate change training programme for employees and Elected Members is being developed and rolled out. An online climate change training module is now a mandatory part of the induction process for new employees and is being fully updated. Eight two-hour Climate Change and Sustainability sessions have been delivered for employees and five more are scheduled for 2023, including two face-to-face events. Three of these are already fully-booked. Department-specific training is being offered which can be tailored to team requirements. Carbon Literacy training has been delivered to Elected Members and Senior Officers, senior Childrens Services staff and a further event to a range of officers and Elected Members from across the county.


Low Carbon Economy							
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
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 was secured from D2N2, Midlands Energy Hub and the Derbyshire Economic Prosperity Committee and the project was commissioned in December 2021.</p> <p>The final version was published in November 2022. 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 and will also provide an evidence base for the County Council's emerging Energy Framework</p> <p>The Steering Group has been providing feedback to the consultancy team throughout. The study will be reported to CMT /Cabinet in February 2023</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 the 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.</p> <p>The Renewable Energy Study explores some of these issues, however, further focussed work is needed in this area. A Strategic Framework for Council action to deliver Net Zero energy in Derbyshire is in development, with one of the policy objectives being to make better use of existing, and creating new, energy grid capacity in Derbyshire. The Council is also working with the county's minerals products industry to engage with the DNO on grid capacity issues to ultimately enable a growth in renewable energy generation across the industry.</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.</p> <p>Funding position as of end of December 2022:</p> <ul style="list-style-type: none"> • Small grants fund: £184,027 (11 live applications) and £60,000 for three in due diligence. • Demonstrator grants: £541,314 (3 live applications) and £111,959 in due diligence. • Scholarships: £35,457 – 33 individuals with some doing more than one course
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.</p> <p>The DE-Carbonise programme has now concluded and a successor is being planned and the district and borough councils have asked the Council to lead on the procurement of this activity.</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 Strategic Framework for Council action to deliver Net Zero energy in Derbyshire 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 Strategic Framework for Council action to deliver Net Zero energy in Derbyshire 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 the Combined Authority.</p>
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16	In line with Vision Derbyshire, continue working with borough and 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 next phase of the 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 priority projects for the next phase of the work programme with the district and borough councils.</p>
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Decarbonising the Domestic Sector							
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
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 explores this and identifies broad opportunities. This is also being explored through a heat network opportunity at Clay Cross and wider renewable energy opportunities. A Strategic Framework for Council action to deliver Net Zero energy in Derbyshire is in development, as well as a proposed D2N2 Local Area Energy Plan.</p> <p>Mitigation: This area of work is being progressed through the development of the Council's Strategic Framework for Council action to deliver Net Zero Energy in Derbyshire, and wider opportunities are 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 the opportunities to influence this as well as wider low carbon planning and development. A Strategic Framework for Council action to deliver Net Zero energy in Derbyshire 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 provide insulation for eligible households.</p> <p>Extensive engagement activities have been undertaken by the county, district and borough councils to understand the motivations, barriers and support needed to enable householders to improve the energy efficiency of their homes and make them fit for the future. Activities have included on-line consultations; meeting specialist and non-specialist groups face-to-face and on-line; pop-up events at markets. An options paper and action plan are being drafted based on the outcomes of the engagement and will be presented to CMT in Spring 2023. The Vision Derbyshire Living and Working Sustainably Theme is providing governance and oversight to the work.</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>Liaison with Midlands Net Zero Hub (MNZH) on the theme of retrofitting housing is continuing. MNZH is supporting borough and district councils to retrofit social housing and privately owned homes where the owner is vulnerable and in fuel poverty. MNZH has also appointed 18 training providers to deliver retrofit training courses. This work will complement work to support the development of the supply chain in Derbyshire. An article has been drafted for the Trusted Trader e-newsletter to highlight the issue to existing traders.</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>


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>Following the community engagement work (see item 19) a draft action plan and options paper are being produced setting out actions for delivering a campaign on energy efficiency which can be co-delivered by community groups and councils across the county.</p> <p>The Council is also talking to other organisations that 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>
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Transport, Travel and Infrastructure



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
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>


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. The Council has been awarded £47m, around half of the original bid. The first year of BSIP funding was received from the DfT in November 2022. As this has arrived eight months later than originally anticipated some of the schemes proposed for 2022/23 are now going to be delivered later in the programme. However, a number of schemes are due to be delivered by the end of March 2023, these include:</p> <ul style="list-style-type: none"> • fares discount for young people between 16-18 and unemployed people • the first phase of the bus priority measures at some traffic signals • the introduction of some new bus services <p>Work on the Enhanced Bus Partnership continues. A countywide Transport Hub study has been completed by SYSTRA. 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 and the first year of funding received, the full programme of work is being confirmed and timetabled, with recruitment activities being carried out 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 early 2023 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 received an allocation of £0.285m from Active Travel England's Capability Fund 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. Smart Rider cycle safety schemes for school children and adult cycle training are delivered by the Council's 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>
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 full time Low Emissions Vehicle Infrastructure (LEVI) Project Officer is now in post to coordinate this work. 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 involved working with the district and borough councils, with a series of workshops undertaken. Soft market testing with commercial suppliers is also being undertaken. A detailed procurement exercise to appoint appropriate charge point suppliers to install a significant number of both residential and destination charge points across the county is now being carried out.</p> <p>The Council is currently working with a consortium, led by CENEX and including 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, £0.1m 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>

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.</p> <p>This also 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>
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Waste							
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
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 for 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. The delivery plan continues to be progressed with relevant stakeholders.</p> <p>The Waste Management Service is reviewing Household Waste Recycling Centres performance to understand the potential opportunities for increased recycling and diversion</p>

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 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. The Council as Waste Disposal Authority runs campaigns and where possible does so in partnership with WCAs. The campaigns focus on residual municipal waste (not business waste), as the Council only has a remit for the disposal of Household Waste arisings. 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. Smaller campaigns are being rolled out, to align with the Household Waste Recycling Centre performance review and operational health and safety concerns i.e., sorting your waste campaign at the HWRCs. The Service will continue to be promoted through social media where possible. Videos produced for publication on WCA websites. Mitigation: The Theme Lead for Waste is continuing to work closely with WCAs in this area.
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 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. 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. Continue to promote sustainable procurement policy when procuring new contracts. Mitigation: The Theme Leads for Waste and Procurement are exploring opportunities to increase capacity to deliver this action.

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 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 (currently in the mobilisation phase) has a requirement to redistribute good quality products from HWRCs. Two initial sites have been identified as Bolsover and Raynesway HWRCs, and the second phase will include Darley Dale and Ashbourne. The scope and timeline are currently in discussion.</p>
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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:** ‘Making better use of existing, and creating new, energy grid capacity in Derbyshire’ is one of six Policy Objectives for the Council in the 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, as well as for the installation of electric vehicle charging infrastructure, and so working collaboratively with partners to address this national issue in the local context will help to enable future energy generation and demand 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 us 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.	

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Climate Change Performance Reporting: 2022-2023 Q3

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

13 February 2023

Key points

- Dashboard for 2022-23 Q3 (October – December 2022)
- Positive change from the previous quarter
- 17 priority actions (53%) have been allocated a **Good** rating
- 15 priority actions (47%) have been allocated a **Review** rating
- No priority actions have been allocated an **Action** rating

Priority Actions - Overview

Strategy Theme	Good	Review	Action
Council Estate and Operations	6	3	0
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	15	0

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Steps being taken to bring the 15 **Review** rated actions back on track, particularly those that have the potentially biggest negative impact on achieving net zero targets if not achieved.

Focus Areas

- **Council Estate and Operations:**
 - Corporate Property decarbonisation
 - EV fleet and charging infrastructure
- **Low Carbon Economy:**
 - Skills, employment and training
 - Planning guidance and policy
- **Decarbonising the Domestic Sector:**
 - Support to homeowners
 - Skills, employment and training
- **Transport, Travel and Infrastructure:**
 - Bus Service Improvement Plan
 - EV charging infrastructure
- **Waste:**
 - Diversion and reduction in waste

Long-list actions

- 120 long-list actions rationalised – now a long-list of 30
- 13 long-list actions (43%) have been allocated a **Good** rating
- 15 long-list actions (50%) have been allocated a **Review** rating
- Two long-list actions are identified as requiring **Action** (unlikely to achieve timetable and/or to deliver required outcome):
 - Grid Capacity and Demand
 - Funding Support

Targets Review

- 27 targets in the Climate Change Strategy
- Many of the targets are outside of the direct control of the Council

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Progress reviewed annually

The 2022 annual review identified seven targets where there is a risk to delivery

- Development of interim targets where appropriate and feasible
- All targets to be reviewed in full in Autumn 2023



FOR PUBLICATION

DERBYSHIRE COUNTY COUNCIL

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

13 FEBRUARY 2023

Report of the Director - Commissioning & Transformation

**Progress Report for Property Decarbonisation.
Review of Carbon Reduction targets.**

1. Purpose

Further to the Report to the Scrutiny Committee on progress to decarbonise the corporate estate, Corporate Property have been requested to review and report with regards to the targets to decarbonise the Council’s estate.

This includes a review of the targets included within the Climate Change Strategy, and the subsequent development of additional or enhanced targets by Corporate Property.

<https://www.derbyshire.gov.uk/site-elements/documents/pdf/environment/climate-change/climate-change-strategy.pdf>

1.1 Summary of targets

Corporate Targets within the Climate Change Strategy.		
	Target	Note
	To achieve a 47% reduction in carbon emissions from 2005 to 2025 for county wide emissions.	Carbon emissions associated with property achieved a 44% reduction between 2010 and 2022 See section 2.3
T2	The Council will switch its existing electricity tariff to a 100% renewable electricity tariff by 2023 with an optional buy-in for schools.	Subject to annual assessment. See section 2.5

T3	Reduce emissions from heating buildings to less than 700tCO2e by 2032	A residual energy use for heating equivalent to 700 tCO2 or 3.5 million kWh is not possible. See section 2.6
		A residual energy use for heating equivalent to that proposed in the 2019 Carbon Reduction Plan is achievable. See sections 2.7 and 2.8
T4	Quadruple existing microgeneration of renewable energy on Derbyshire County Council's estate to 200 MWh by 2032. (Equivalent to 200,000 kWh of renewable energy)	Target likely to be achieved and exceeded. The proposed capital programme 2022-23 includes 460,000 kWh of pv. See section 2.8

Corporate Property - Proposed Targets		
	Target	Note
CP01	To deliver 1 million kWh of renewable energy by local microgeneration on site.	The proposed capital programme for 2022-23 includes 460,000 kWh of pv. Target endorsed by CCEB See section 3.1
CP02	To reduce use of energy for heating by 5 million kWh	Work in progress to deliver the required outcomes across the estate. Target agreed with Climate Change Group. See section 3.2
CP03	To achieve a minimum energy efficiency rating for each asset of 85 D A 15% improvement over CIBSE benchmark	Work in progress to prioritise and deliver the required outcomes across the estate. Target endorsed by CCEB See section 3.3

A detailed review of the corporate targets follows in section 2; and of the Corporate Property targets in section 3.

2. Information and Analysis

2.1 The Council is committed to achieving Net Zero for corporate emissions by 2032 or sooner, including emissions from the corporate estate. To achieve Net Zero, the energy use - and associated carbon emissions - must be reduced and the emissions associated with residual energy use must be offset by appropriate measures - including generating energy from renewables. A Council-wide offsetting / sequestration programme is required.

2.2 The Council's Climate Change Strategy ([Climate Strategy](#)) covers the period 2021-25. It is due to be reviewed and updated fully in 2025. This sets carbon reduction targets, supports the need for commercial-scale renewables across the county, and acknowledges the need to offset residual emissions that cannot be eliminated by 2032.

2.3 This strategy references the benchmark of carbon emissions in 2005 and the target to achieve a 47% reduction in county-wide emissions by 2025.

“Since 2005, Derbyshire’s county-wide emissions have fallen by 21%. We will need to accelerate our emissions reductions if we are to achieve the 47% reduction in emissions by 2025 (against the 2005 baseline)”.

Although this is referring to county-wide emissions it is worth noting that the reduced emissions from corporate property over the period 2009-10 to 2022-23 equate to a 44% reduction in carbon emissions.

(2009-10: 15,666 tonnes CO₂; 2022-3: 8,861 tonnes CO₂)

2.4 Climate Change Strategy Targets

The Climate Change Strategy includes 32 priority targets across five key areas.

The specific targets in relation to corporate property are as follows:

- T2 The Council will switch its existing electricity tariff to a 100% renewable electricity tariff by 2023 with an optional buy-in for schools.
- T3 Reduce emissions from heating buildings to less than 700tCO₂e by 2032.
- T4 Quadruple existing microgeneration of renewable energy on Derbyshire County Council’s estate to 200 MWh by 2032.

2.5 Review of target T2 – procurement of 100% Renewable Electricity

The procurement of green energy is subject to the current contractual and procurement measures. The Council procures energy through Crown Commercial Services and EDF Energy are the selected provider. The Council has a rolling 12-month contract for the purchase of electricity from EDF Energy, starting on 1st April each year. This contract runs to 2023. Feedback from the Energy Management team is that it is therefore not currently feasible to explore options with other suppliers due to this existing contractual commitment.

As of December 2022, the EDF electricity supply is 82% from low carbon sources (63% nuclear and 19% renewables). This is better than the UK low carbon average but lower than the UK renewable average.

The supplier can provide electricity with a higher low carbon / renewable component backed by REGO (Renewable Energy Guarantees of Origin) certificates. However, there is scepticism as to the value of these certificates, and the current recommendation from the Energy Manager is not to pursue this option.

The target to switch to 100% renewable electricity for the corporate estate by 2023 is therefore not met at this time. However, measures to reduce electricity demand by property rationalisation, energy management, and the installation of photo-voltaic panels and other retrofitting measures will reduce the base carbon footprint.

The framework for energy supply is due for renewal as noted. The Energy Manager will consider future options for the procurement of green energy during 2023 and will report accordingly.

Ultimately the procurement of green energy is an essential measure if the Council is to achieve the Net Zero objective. Procurement of green energy should not be deemed to imply any reduction in the efforts to reduce the residual energy use, including energy use associated with heating.

2.6 Review of target T3 to Reduce emissions from heating buildings to less than 700tCO₂e by 2032

In 2021 the total emissions relating to the use of gas, oil and propane for heating corporate buildings were equivalent to approximately 6500 tCO₂e.

The target to achieve 700 tCO₂e could be interpreted as a reduction of 90% in residual energy use for heating. It should be noted that it is not possible to achieve a 90% reduction in residual energy use for heating buildings.

The most energy efficient buildings that have been developed to minimise the use of fuel for heating are new build, super-insulated, sealed buildings, with mechanical ventilation and heat recovery of ventilated air. These may achieve savings on fuel for heating of 80-85% at the cost of increased electricity use, but this is not a standard that can be applied to the refurbishment of existing buildings.

Further explanation of the 700tCO₂e target may be contained within the 2019 Carbon Reduction Plan – see section 2.7. Within this plan it is apparent that the 700 tCO₂e target is an adjusted figure that includes for the procurement of green energy and other offsetting measures. The allocation of offsetting benefits is not within the remit of Corporate Property. Whilst annual targets may be set which rely on the allocation offsetting benefits, the only measure which Corporate Property can directly control is the residual energy use. Therefore, it is necessary to identify an alternative residual energy use target.

It may be assumed that the total residual energy consumption for heating as envisaged within the 2019 Carbon Reduction Plan equates to approximately 22 million kWh. (Calculated from an emissions load of 700 tCO₂e for heating plus 3894 tCO₂e associated with green gas).

22 million kWh of energy use for heating would equate to a significant reduction in energy use for heating buildings of 37% across the estate in comparison to 2021 figures, and this remains a valid potential target – see section 3.2.

2.7 Strategic Report to CMT - dated 4 October 2022

A further complication is that the 700t CO₂e emissions target (heating) from the Climate Change Strategy is now superseded by new annual emissions targets.

A new schedule for annual target emissions for corporate property was reported to CMT in October 2022 through the Climate Change Programme, as follows:

	Greenhouse Gas Emissions: Actual, target and projected (tonnes CO₂e)	
Year	Property (excl. schools)	
2021-22 (actual)	8,861	
	Target	Projection
2022-23	7,980	8,130
2023-24	7,090	7,640
2024-25	6,200	6,980
2025-26	5,320	6,420
2026-27	4,430	6,080
2027-28	3,540	5,750
2028-29	2,660	5,520
2029-30	1,770	5,310
2030-31	890	5,130
2031-32	0	4,990

These targets were approved by CMT and are now to be embedded within Council Plan.

The 2031-32 target is 0 tCO₂e.

The equivalent T3 target for emissions associated with heating is therefore also 0 tCO₂e.

To achieve zero emissions, the above targets must include an unidentified allowance for offsetting, greening of the grid, and green energy procurement etc. As previously noted, the only measure which Corporate Property can directly control is the residual energy use.

It therefore remains necessary to identify an alternative residual energy use target for heating and the analysis and evaluation given in section 2.6 remains valid.

See section 3.2.

2.8 Review of the T4 target from the Climate Change Strategy for Microgeneration of energy from renewable sources on corporate buildings.

To Quadruple existing microgeneration of renewable energy on Derbyshire County Council's estate to 200 MWh by 2032.

The target is likely to be achieved and exceeded.

The proposed capital programme 2022-23 includes measures to generate approximately 460,000 kWh via roof mounted photo-voltaic installations.

Corporate Property propose a more ambitious target of 1 million kWh to be achieved by microgeneration on site – see section 3.1.

3.0 Corporate Property Proposed Targets

Corporate Property have interpreted the various corporate targets and have developed a detailed plan to reduce energy consumption and carbon emissions.

However, achieving Net Zero will also be dependent upon achieving the necessary offsetting measures to match residual energy use.

Corporate Property have proposed SMART targets for microgeneration and other measures which will reduce energy use. These targets are specific, measurable targets which apply across the estate to specific target buildings.

Carbon emissions reduction and energy savings will be achieved by a combination of property rationalisation, energy management, local microgeneration, and retrofitting measures to improve the energy efficiency and thermal performance of buildings. The strategy continues to include the purchase of renewable or green energy and offsetting by large-scale renewable energy generation in accordance with previously approved plans.

3.1 CP01 To deliver 1 million kWh of renewable energy by local microgeneration

Whilst microgeneration does not reduce energy use as such, it generates electricity on site which reduces the demand on the grid. This results in an improved energy efficiency rating.

The Climate Change strategy / corporate target of 200,000 kWh stands as the corporate target for microgeneration however Corporate Property has increased the target for microgeneration by a factor of 5 to 1million kWh.

Corporate Property has assessed the potential for roof mounted photo-voltaic installations on buildings to be retained. There may also be some opportunity to develop ground mounted mini-solar farms adjacent to selected assets which could provide further opportunities for decarbonisation.

It is therefore proposed to increase the target capacity for local microgeneration to 1 million kWh per annum.

This is a 500% increase on the target stated with the Climate Change Strategy.

This proposal has been endorsed by the Climate Change and Environment Board.

It is recognised that installation is constrained by the condition of the existing fabric, by fire risk and by the available structural loading capacity.

The proposed capital programme 2022-23 includes measures to install solar panels and to generate approximately 460,000 kWh via roof mounted photo-voltaic installations.

3.2 CP02 To reduce use of residual energy for heating by 5 million kWh

The energy use for heating has been reduced in recent years as shown:

2019-20	36.2 million kWh
2020-21	34.7 million kWh
2021-22	33.4 million kWh
2019 Plan	22 million kWh

It is proposed to retain and adopt the residual energy use target for heating which underlies the 2019 Carbon Reduction Plan.

As previously noted, this equates to 22 million kWh and equates to a significant reduction in energy use for heating buildings of 37% across the estate in comparison to 2021

This establishes a target to reduce energy use for heating by 11.4 million kWh per annum.

It is assessed that by 2032 plans for property rationalisation could deliver energy savings (heating) of 6.4 million kWh.

The proposed Corporate Property target (CP02) is to achieve a further 5 million kWh of savings for heating.

This is to be achieved via the combined measures of energy management and upgrades to retained buildings which will enhance the energy efficiency of buildings.

This target has been assessed by calculating the improvement required to upgrade all corporate buildings to achieve a voluntary minimum energy performance standard which exceeds the CIBSE benchmark – see 3.3.

The target to save 5 million kWh of energy use for heating has been agreed with Climate Change Group.

3.3 CP03 To adopt a minimum performance requirement for the energy efficiency of all corporate buildings

The energy efficiency of all existing corporate buildings has been assessed based on energy consumption in 2021. Buildings are allocated a rating from A-G.

The energy efficiency rating is calculated with reference to the CIBSE benchmark target. A building with a rating of 100 D matches the benchmark target. Buildings rated A-C are more efficient than the benchmark target. Buildings rated E-G are progressively less efficient and require priority improvement measures. The CIBSE benchmark establishes a reasonable baseline for operational energy use.

It is proposed to target a minimum performance standard that will achieve a 15% improvement over the CIBSE energy performance benchmark.

This strategy enables the council to identify specific buildings where improvement measures are required and to set an energy budget for every building. There is a target energy use for every building.

This proposal has been endorsed by the Climate Change and Environment Board.

It is proposed to achieve this by a combination of energy management and retrofit action.

3.4 Property Rationalisation

There is no fixed target for carbon reduction savings by property rationalisation.

There is an objective to review each service and to rationalise the estate to suit the needs of the service. The outcome is that the disposals programme is greater than was envisaged in 2019.

The estimated value of projected property rationalisation equates to:

A total projected energy saving of 8.4 million kWh including a projected energy saving on heating of 6.4 million kWh

In 2021 this is equivalent to a saving of 1693 tCO₂e.

This saving significantly exceeds the estimate of 645 tCO₂e as referenced in the 2019 Carbon Reduction Plan.

A significant proportion of the estate is currently under review and therefore it is only possible to estimate the value of further future disposals.

3.5 Energy Management and Retrofitting Measures

It is proposed to make energy savings and reduce carbon emissions by active energy management. Remote sensors are to be installed in buildings and an energy management system will be developed.

The value of the saving by active energy management can only be estimated until we have a pilot project of approximately 30 buildings as proposed in the 2022 capital programme bid.

This is no specific target for carbon reduction by active energy management alone. The relevant target is to achieve a 5 million kWh reduction in energy use for heating by a combination of energy management and retrofit improvements.

A phase 3b Public Sector De-Carbonisation Scheme grant bid has been submitted for a flag-ship project at Alice's View Children's Centre.

The proposal is to replace the existing gas boilers with an Air Source Heat Pump and to maximise the roof mounted photo-voltaic installation.

This may achieve the first Net Zero refurbishment project and eliminate the reliance on mains gas and electricity.

3.6 Results

After discounting energy savings by:

- property rationalisation
- microgeneration
- savings on energy use and fuel for heating by a combination of energy management and retrofit action

and adding back an additional allowance (for new buildings, possible EV charging and the increase in electricity use associated with switching from gas), the total projected residual energy use for property in 2031-32 is currently 30 million kWh.

This is a 33% reduction against the 2021 benchmark.

The carbon emissions associated with the residual energy use may be further reduced by the procurement of green energy and by offsetting the value of large-scale renewables as envisaged in the 2019 Carbon Reduction Plan.

3.7 The procurement of Green Energy

The council remains dependent on the procurement of green energy to achieve Net Zero.

The use of solid fuel has already been eliminated.

The use of oil and propane is only 2% of the fuel use for heating. It is proposed to eliminate this use of fossil fuel as soon as possible.

The use of gas in cooking needs to be phased out with a programme of conversion to fully electric kitchens.

98% of heating for corporate buildings is by gas. There is currently no national strategy towards developing an alternative fuel.

The potential contribution from biomass will also be assessed, however this is no longer the preferred option for Public Sector Decarbonisation schemes.

There are perceived risks to air quality and there is limited sustainable supply of biomass fuel. Applicants for PSDS grant funding are expected to illustrate why biomass is a more suitable option than other low carbon alternatives and must explain how it is proposed to mitigate any potential impacts on air quality.

3.8 Solar Farms

Four priority sites have been identified for potential development as solar farms.

The potential output from these four sites is estimated as 12.2 million kWh.

There is a proposal to develop the first site at Williamthorpe (plot 2) which will generate 3.2 million kWh. The current limiting factor is the availability of connection to the National grid.

The value of large-scale renewables may be used to offset carbon emissions from all Council operations, but there is no strategy at present for the allocation of offsetting benefits.

There may be opportunities for ground based solar (with private wire supply into adjacent corporate buildings) but this potential use will frequently conflict with the simultaneous requirement to generate capital receipts via disposals.

3.9 The refurbishment challenge

Corporate Property is currently procuring surveys and feasibility assessments to identify opportunities to enhance the energy efficiency of occupied buildings.

However, achieving significant improvement will often require a full building refurbishment of vacated buildings. The existing heating, lighting, and power distribution systems etc would have to be stripped out and replaced. There will be an additional cost in locating to another temporary location. The pay back periods for significant interventions of this nature are over 100 years. This will be the appropriate strategy for some buildings, but it cannot be the strategy to be applied across the estate. The estimated cost to fully refurbish the worst performing buildings is circa £250 million.

The emerging asset strategy therefore often identifies a preference for disposal of an asset within 5 years and the relocation of a service to an alternative location. The risk with this strategy is that alternative buildings are acquired with limited time to achieve the necessary decarbonisation measures prior to 2032.

3.10 Risks to Project delivery

Some of the more obvious risks pertain to:

- Obtaining the necessary project funding.
- Achieving a consensus. There is competition with alternative uses e.g. tree planting versus solar farms.
- There is a conflict between the options for disposal versus development of ground based solar.
- There is no national strategy for the replacement of natural gas.
- Issues regarding procurement of green energy
- Agreement over the strategy for offsetting.

4 Consultation

- 4.1 The above proposals have been reviewed with stakeholders including the Climate Change group. The Council's Climate Change and Environment Programme Board (CCEPB) in July 2022 approved the commissioning of external specialist support to review the Council's Corporate Property carbon reduction strategy and verify the plans to decarbonise the Corporate Estate.

5 Alternative Options Considered

- 5.1 Do nothing: this is not an option if the council's objective of achieving Net Zero within the proposed timescales are to be realised.

6 Implications

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

7 Background Papers

Progress Report to Scrutiny Committee dated October 2022

8 Appendices

8.1 Appendix 1 – Implications

8.2 Appendix 2 – review of the 2019 Carbon Reduction Plan

9. Recommendation(s)

That the Improvement and Scrutiny Committee:

a) endorses the proposed targets

b) supports the proposed strategy for the decarbonisation of corporate property.

10. Reasons for Recommendation(s)

10.1 To establish agreed targets

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Implications

Financial

1.1 There are no direct financial implications in relation to this report, however, funding will be required for capital schemes which come forward for progression. Individual schemes will be financially assessed for affordability, costs and benefits as part of Business Cases which will be completed for projects after initial feasibility works have been carried out.

Legal

2.1 The Director of Legal and Democratic Services will provide advice as necessary on a project specific basis.

Human Resources

3.1 HR will provide input regarding any proposed building closures and any impact on human resources.

Information Technology

4.1 no issues

Equalities Impact

5.1 no issues

Corporate objectives and priorities for change

6.1 The corporate policy is to achieve Net Zero for the corporate buildings by 2032 or sooner, and to achieve Net Zero for the whole of Derbyshire by 2050.

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

7.1 The Climate Change and Environment Board has reviewed and endorsed the proposals as noted..

2019 Carbon Reduction Plan reviewed

The Climate Change Strategy references the 2019 Carbon Reduction Plan.

Within the 2019 Carbon Reduction plan there are various projections for carbon emissions and reductions associated with property.

Emissions from property will be reduced through a combination of property rationalisation, behaviour change, energy efficiency measures, generation of renewable electricity on Council property and purchasing renewable energy generated elsewhere.

The estimated reduction in emissions from these actions are summarised at key milestone dates in the following table. The dates shown coincide with the end of the UK carbon budget periods set by the government. Some reduction in emissions from the Council estate will occur due to external factors.

Source of emissions	Key Action	Emissions (tonnes CO ₂ e)				total	%
		Actual emissions (2018/19)	Projected milestone emissions (2021/22)	Projected milestone emissions (2026/27)	Projected emissions (2031/32)		
Property	Property rationalisation		-157	-488		645	6%
	Behaviour change		-638			638	6%
	Low-cost energy efficiency			-950		950	9%
	Deep retrofit			-1,640		1640	16%
	Microgeneration			-42		42	0.4%
	Large scale renewables			-1,545		1545	15%
	Purchase renewable electricity				-137	137	1%
	Purchase renewable gas				-3,894	3894	38%
	Residual energy use					664	6.5%
Sub-total (with greening of the grid)		10,023	9,800	4,703	664	10,155	100%

From this table it appears that the 700 tCO₂e target in the Climate Change Strategy may be rounded up from the 664 tCO₂e total in the final column. However, 664 tCO₂e is the total value of residual energy use, not just the energy use associated with heating and any value greater than nil does not achieve Net Zero.

Summary: From the above it may be deduced that:

- the target for the residual energy use associated with property in 2031-2 is @6,240 tonnes CO₂e (664+3894+137+1545)

This is equivalent to approximately 30 million kWh.

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