



**FOR PUBLICATION**

**DERBYSHIRE COUNTY COUNCIL**

**CABINET**

**15 June 2023**

**Report of the Executive Director - Place**

**A Strategic Framework for Council Action to Secure Net Zero Energy in Derbyshire**

(Cabinet Member for Strategic Leadership, Culture, Tourism and Climate Change)

**1. Divisions Affected**

1.1 County-wide.

**2. Key Decision**

2.1 This is not a Key Decision.

**3. Purpose**

3.1 The purpose of this report is to seek the endorsement of Cabinet to a Strategic Framework (and a Delivery Plan) for Council action to secure net zero energy in Derbyshire.

**4. Information and Analysis**

4.1 The Strategic Framework and a Delivery Plan have been designed to identify where and how the Council should act in the complex and multi-faceted net zero energy agenda. The Framework identifies six net zero energy policy objectives where the Council's involvement is warranted in contributing to their delivery. It also proposes the roles that the Council should take in doing so. The Framework's Delivery Plan

summarises the objectives, actions, and timescales for the Council's next steps in progressing Derbyshire's transition to net zero energy.

- 4.2 It should be acknowledged that such Council roles may be limited in scope and outcome given the complexity and scale of this agenda and the much more prominent roles of the Government and the private sector in driving change.
- 4.3 The intention is that the Strategic Framework is used to direct and prioritise Council resources to progress relevant net zero energy projects. Furthermore, the Framework has been prepared as a platform from which the Council's engagement in the Net Zero, Energy and Environment theme of the East Midlands Devolution Deal can be progressed (from which a Mayoral Combined County Authority Energy Strategy is expected to quickly emerge).
- 4.4 The past year has sparked recognition of the importance of a faster UK transition to net zero, to support energy security and reduce exposure to volatile international fossil fuel prices, by harnessing abundant renewable and low carbon energy resources. The Council is committed to enabling Derbyshire to be a net zero county by 2050 and is working as a key partner within Vision Derbyshire to secure collaborative local authority action on this priority.
- 4.5 A cost competitive, low carbon, and resilient energy system is critical to achieving this goal. This energy system must meet the cost of living needs of Derbyshire's communities and businesses; whilst creating new economic, social, and environmental opportunities that will enhance the county's prosperity and its contribution to the new East Midlands Devolution Deal.
- 4.6 However, given the complex nature of the globally significant social, economic, and environmental issues driving this agenda, and the wide range of energy related projects the Council could champion, it is essential that the Council defines where it should best focus its attention in the near, medium, and longer term.
- 4.7 Therefore, the purpose of the Strategic Framework is to provide a method by which the Council can ascertain the elements of the net zero energy agenda it is best placed to contribute to progressing and what role it should take in so doing. The Framework offers an overview of these matters, and signposts to where many are already the subject of close Council attention, for example:

- the D2N2 (Derby, Derbyshire, Nottingham and Nottinghamshire) Energy Strategy;
- the East Midlands Devolution Deal;
- the Council's Climate Change Strategy, its Minerals Local Plan, and the Derbyshire Spatial Renewable Energy Study;
- the Corporate Property Asset Management Strategy; and
- the Thriving Communities priority.

4.8 The Council's political leadership has placed priority on the Council defining its role in progressing the net zero energy agenda in Derbyshire. Consequently, this Strategic Framework (see Appendix 3) offers an initial structure to establishing where the Council's role should best focus and what actions are required, namely it:

- Defines what the net zero energy agenda means for the Council.
- Establishes six Policy Objectives for the Council's focus and identifies Priority Workstreams to deliver each Policy Objective (as shown in Section 4 below).
- Provides an explanation of the Council's net zero energy strategic priorities.

4.10 These proposals have been developed based on the following information and analysis also contained in the Framework:

- Review of the national context and relevant drivers for change.
- The shortfalls of the UK's current energy generation and distribution systems.
- Promoting the advantageous features of a potential future decarbonised energy system.
- Assessing Derbyshire's status to respond to the Net Zero energy agenda.
- Identifying the main themes against which action must be taken to secure Net Zero energy.
- Describing the potential roles the Council could undertake in contributing to delivering these main themes and proposing criteria that should be fulfilled to trigger such Council involvement.
- Appraising the main themes status in Derbyshire, and their opportunities and barriers to progress.
- Good practice policy and projects from local authorities in England.

4.11 A primary reference point for the Strategic Framework is the Derbyshire Spatial Renewable Energy Study (November 2022).

4.12 This Spatial Renewable Energy Study has been prepared through Vision Derbyshire to enable the County's place shaping and local planning functions to consistently promote and apply the priority of decarbonisation. It provides information on the county's current energy demand, generation, and supply system. The type, scale, and location of renewable energy generation solutions to secure the Derbyshire Net Zero target by 2050 is also shown. The Study also makes policy recommendations, as highlighted below, that reflect the intent of the Strategic Framework:

- Reduction in energy demand through the appropriate design of new buildings and the retrofitting of existing public buildings and housing.
- Local generation of electricity as a key component of economic and wellbeing strategies.
- Establishing new, effective, and viable heating projects that support business and households.
- Shaping low carbon transport through low carbon mobility strategies, action plans, direct investment in public transport practices and vehicle fleets.

**The Framework's Policy Objectives and Delivery Plan**

4.13 The Framework identifies six Policy Objectives for the Council's prioritisation. These are shown below alongside their suggested Priority Workstream titles, which are recommended as the Framework's key activities in the near-term i.e., up to April 2025.

<b>Policy Objective A</b>	<b>Priority Workstream A</b>
Develop a better understanding of energy grid capacity and opportunities in Derbyshire.	Joint working with Derbyshire's Mineral Products Industry.

<b>Policy Objective B</b>	<b>Priority Workstream B</b>
Enabling behaviour change by the county's residents and businesses, so they make positive, well informed and prompt Net Zero energy generation and consumption decisions.	Supporting owner occupier householders to retrofit through advice and stimulating the home energy efficiency design, installation, and maintenance market.

<b>Policy Objective C</b>	<b>Priority Workstream C</b>
Supporting the progress of sustainable transport solutions for Derbyshire's communities and businesses, including electric and hydrogen solutions.	Enabling the installation of electric vehicle (EV) charging points for public use.

<b>Policy Objective D</b>	<b>Priority Workstream D</b>
Appropriately using the Council's property portfolio and assets to generate and store energy.	Renewable energy generation on the Council's estate e.g. solar, energy from waste, and water resources.

<b>Policy Objective E</b>	<b>Priority Workstream E</b>
Collaborating with Derbyshire's industrial and agricultural sectors to support their transition to Net Zero and in so doing enhancing Derbyshire's economic prosperity.	Re-establish formal engagement with Derbyshire's rural and farming networks to identify options for joint working.

<b>Policy Objective F</b>	<b>Priority Workstream F</b>
Facilitating a modern and smarter digitalised energy system, that brings confidence from consumers, suppliers, and regulators in Derbyshire's Net Zero energy transition credentials and financial transactions.	Working with expert advisors (e.g. Midlands Net Zero Hub) to identify and promote smart energy developments within Derbyshire.

4.14 Information on each Priority Workstream is provided in Appendix 2.

4.15 The Framework's Policy Objectives and its Delivery Plan, as set out as Appendix 3, will be incorporated within the governance of the Council's Climate Change and Environment Programme Board.

## **5. Consultation**

- 5.1 The Strategic Framework's design and application has been informed by collaborative working between the Council's Place Department and Corporate Services and Transformation Department. Its preparation has also been supported by the Midlands Net Zero Hub.

## **6. Alternative Options Considered**

- 6.1 Do nothing - Given the current, and expected on-going, UK and global energy crisis the Council must define how it best supports the residents and businesses of Derbyshire. Therefore, doing nothing has been rejected.
- 6.2 Other policy priorities could be identified - The Policy Objectives identified through the Strategic Framework, and the Council's role in delivering them, have been proposed through dialogue between appropriate Council officers. Other policies and actions could be prioritised, however at present it is recommended that those proposed represent greatest relevance to the Council's influence on the Net Zero energy agenda.

## **7. Implications**

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

## **8. Background Papers**

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

## **9. Appendices**

- 9.1 Appendix 1 – Implications.
- 9.2 Appendix 2 - Information on each Priority Workstream.
- 9.3 Appendix 3 - The Strategic Framework's Delivery Plan.
- 9.4 Appendix 4 – The Strategic Framework document.

## **10. Recommendation**

That Cabinet:

- a) Endorses a Strategic Framework and Delivery Plan for Council action to secure net zero energy in Derbyshire.

## **11. Reason for Recommendation**

- 11.1 To ensure the Strategic Framework is included within the suite of strategies, policies, and projects that support the delivery of the Council's Net Zero commitments.

## **12. Is it necessary to waive the call in period?**

- 12.1 No.

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## **Implications**

### **Financial**

- 1.1 This report does have financial implications for the Council. These will be assessed as part of the delivery of each Priority Workstream.

### **Legal**

- 2.1 This report has legal implications for the Council. These will be assessed as part of the delivery of each Priority Workstream.

### **Human Resources**

- 3.1 None.

### **Information Technology**

- 4.1 This report does have Information Technology implications for the Council. These will be assessed as part of the delivery of each Priority Workstream.

### **Equalities Impact**

- 5.1 This report does have Equalities Impact implications for the Council. These will be assessed as part of the delivery of each Priority Workstream.

### **Corporate objectives and priorities for change**

- 6.1 This proposal will help deliver the following Council Plan priorities:
- Resilient, healthy, and safe communities.
  - High performing, value for money and resident focused services.
  - Effective early help for individuals and communities.
  - A prosperous and green Derbyshire.

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

- 7.1 None.



### Information on each Priority Workstream

#### Priority Workstream for Policy Objective A

- Develop a better understanding of energy grid capacity and opportunities in Derbyshire.
- Joint working with Derbyshire's Mineral Products Industry.

Derbyshire's Minerals Products Industry brings substantial benefits to both the local and national economy. However, the extraction of minerals, and their processing and transport to market, all generate significant levels of carbon emissions.

The industry would like to invest in becoming a Net Zero sector in Derbyshire and be able to generate significant levels of renewable energy on-site for use in their processes and operations, and to sell any excess back to the grid. However, such decarbonisation is dependent on improvements to energy infrastructure (e.g., electricity and hydrogen grid networks) as, currently, grid capacity does not allow any significant levels of renewable energy generated to be fed back into the grid. The sector cannot do this alone and needs support from the Council to engage with and lobby the Distribution Network Operators (DNO) and the Government on this key issue.

Therefore, leading figures from the quarrying and mineral products industry met with the Council in October 2022 to discuss opportunities for working together to ensure the industry and the County are net zero by 2050. This meeting, and subsequent discussions held (with the Institute for Quarrying), are helping to identify what the Council can do to support the sector to become more sustainable locally, which will also help to bring about change nationally.

Linked to this, a priority action in the Council's Climate Change Strategy is to liaise with DNOs and D2N2 LEP to understand grid capacity and constraints for generation opportunities across the county.

As such, the Council is currently supporting the sector in the development of a joint working Memorandum of Understanding and planning for a meeting with Derbyshire's main DNO (Western Power) and National Grid in early 2023. Furthermore, opportunities for the development of a Local Area Energy Plan (LAEP) for the industry is being explored through engagement during 2023-24 with Energy Systems Catapult and Midlands Net Zero Hub.

## **Priority Workstream for Policy Objective B:**

- Enabling behaviour change by the County's residents and businesses, so they make positive, well informed and prompt Net Zero energy generation and consumption decisions.
- Supporting owner occupier householders to retrofit through advice and stimulating the home energy efficiency design, installation, and maintenance market.

Derbyshire's district and borough councils have effectively used Government grants to retrofit the homes of fuel poor owner-occupiers and social housing. This has given confidence to a limited number of larger retrofit companies, though there are issues in the supply chain of materials.

However, greater focus is needed to support the many other homeowners, some of whom are 'willing and able' to undertake, and fund retrofit activities. The Council is leading a programme of work with Derbyshire's district and borough councils, to understand the needs of this 'able and willing to pay' group. Consultation activities, including on-line and face-to-face meetings with community groups; pop-up interviews at markets and similar events and on-line surveys, are currently being carried and will conclude in Q4 2022-23. Preliminary analysis indicates that the major barrier to the 'willing and able' to begin retrofit activity is confidence.

This lack of confidence is about a lack of trust in technologies and the installation market, and a lack of knowledge on how to design retrofit technologies to suit homes not built to modern standards. There is also a lack of awareness and understanding about quality assurance of installed technology. Findings suggest that homeowners would like detailed, local, and specific advice and one-to-one support to begin their retrofit journey.

Using the consultation findings the Council will explore a range of options for providing homeowners with information, advice, and support to undertake energy efficiency measures on their own homes during 2023-24. Once a preferred option is agreed, a detailed Business Case will be developed which will then, subject to formal Council approval, inform a draft programme of activities which will be co-delivered with local communities.

It is also essential to support the development of a strong retrofit market and supply chain in Derbyshire. This is an important part of the Council's economic regeneration priority, and in particular the skills, training and jobs that are necessary to meet this expected householder demand.

Further work is also necessary to ensure homeowners are aware of, and understand, the various quality assurance and accreditation schemes which

already exist. Work in this area is being carried out by Midlands Net Zero Hub and nationwide companies such as the 'Retrofit Academy', which the Council is engaged with. Initial discussions have also taken place with the Council's Trading Standards team to highlight the latent demand for all energy efficiency trades and to encourage traders to update their Trusted Trader pages accordingly.

### **Priority Workstream for Policy Objective C:**

- Supporting the progress of sustainable transport solutions for Derbyshire's communities and businesses, including electric and hydrogen solutions.
- Enabling the installation of electric vehicle (EV) charging points for public use.

The Council has a target of delivering 1,000 EV charging points for public use by the end of 2025 in collaboration with partners. Its longer-term target is to support the installation of electric vehicle chargers at 144,000 properties across Derbyshire by 2035.

A study has been recently completed that identifies potential demand for EV charge points across the county and assesses the preferred locations, and types of charge points needed, to meet this demand. The Study's findings are being progressed through three workstreams:

- Workstream 1 – Public Access 'destination' charging.
- Workstream 2 – Residential 'on-street' provision.
- Workstream 3 – Council estate charging provision.

The next stage is to complete soft market testing with Charging Point Operators (CPOs) to consider their interest in delivering each workstream. This will be used to inform a formal procurement exercise to appoint a CPO (or multiple CPOs) to work towards the delivery of the targets referenced above.

Supplementary project aims include identifying practical charging solutions for those householders without off-street parking. This is needed to remove a key barrier to EV uptake amongst many residents and encouraging the greater use of EVs amongst Council staff (to contribute towards the Council's net zero target by 2032).

### **Priority Workstream for Policy Objective D:**

- Appropriately using the Council's property portfolio and assets to generate and store energy.

- Renewable energy generation on the Council's estate e.g., solar, energy from waste, and water resources.

The draft Carbon Reduction Strategy for Corporate Property identifies the microgeneration of renewable energy on the Council's estate as a priority measure to reduce Council emissions, primarily from solar PV. The Strategy also identifies the need for major projects to generate energy from renewable sources as an appropriate measure to offset the residual carbon from its energy use after other measures have been implemented. The Council can claim a carbon offset for any renewable energy produced on its buildings or land if it owns or controls the development. This includes if the energy produced is used directly by the Council or is supplied to the national grid or another user.

Offsetting does not imply that additional measures to reduce energy use are not also given appropriate priority. Reducing energy use will remain the top priority for the Council's Corporate Property Services.

Furthermore, the Council's Climate Change Strategy has a target of quadrupling existing microgeneration of renewable energy on the Council's estate to 200 MWh by 2032. Corporate Property has increased the target to 1,000 MWh of solar energy (from roof mounted PVs) and the proposed capital programme for 2023 includes projects to deliver over 400 MWh. This energy generation will reduce the Council's demand on grid electricity and lead to a subsequent reduction in carbon emissions.

Following a series of feasibility studies on solar park potential on Council-owned land by APSE Energy in Q3 2022-23, there is now a proposal to deliver the Council's first major solar park project at Williamthorpe to generate energy for export to the grid. If approved this will generate over 3,000 MWh of energy per annum and evidence Derbyshire's commitment to lead, and contribute towards, the greening of the national electricity grid, whilst offsetting carbon emissions and generating a financial return.

The study undertaken by the Association of Public Service Excellence (APSE) Energy also includes a review of other potential Council-owned sites with three more sites identified for similar future development subject to the availability of grid connection.

### **Priority Workstream for Policy Objective E:**

- Collaborating with Derbyshire's industrial and agricultural sectors to support their transition to Net Zero and in so doing enhancing Derbyshire's economic prosperity.

- Re-establish formal engagement with Derbyshire’s rural and farming networks and identify options for joint working.

The agricultural sector is uniquely placed to be part of the solution to the UK’s commitment to achieving net zero emissions by 2050. The sector can help achieve this through the generation of renewable energy, and the implementation of low carbon technologies and best practice in both carbon reduction and environmental land management.

The Council has engaged with and supported the agricultural sector on the climate change and sustainability agenda through forums such as the (no longer active) Derbyshire Economic Partnership Rural and Farming Network, and through informal networks such as Derby Climate Coalition. However, there is a renewed need for more formal engagement and the exploration of collaborative working opportunities to support the sector to become Net Zero whilst also facilitating economic benefits and long-term sustainability. Linked to this, the Vision Derbyshire Climate Action Plan includes a priority to “promote the adoption of sustainable farming practices which increase carbon sequestration by plants and soil and lead to fewer negative environmental impacts”.

Therefore, this is a new formal workstream for the Council and proposed next steps are to:

- Engage with Midlands Net Zero Hub, who are leading [research](#) into innovative ways to help farmers and horticulturalists reach net zero.
- Engage with the National Farmers Union (NFU), potentially through the East Midlands Group, to understand opportunities for joint working and areas of innovation and change within the sector locally and nationally.
- Review the findings and recommendations in the Derbyshire Natural Capital Strategy (February 2023) that establishes the contribution of agriculture to the landscape character and ecosystem services of the county.
- Use the Council’s leadership in Local Nature Recovery and Biodiversity Net Gain, in implementing the Environment Act 2021, to establish areas of focus and the Council’s role and areas of influence.

### **Priority Workstream for Policy Objective F:**

- Facilitating a modern and smarter digitalised energy system, that brings confidence from consumers, suppliers, and regulators in Derbyshire’s Net Zero energy transition credentials and financial transactions.
- Working with expert advisors (e.g. Midlands Net Zero Hub) to identify and promote smart energy developments within Derbyshire

Smart energy systems (sometimes referred to as Smart Local Energy Systems) are ones that use real time data to make decisions that balance energy supply and demand to reduce the carbon intensity of the energy. This is founded on an effective digitalised communication system.

The scale of project can vary significantly but all require sources of energy (electricity and heat), demand for this energy within a reasonable proximity, connections between supply and demand (which may be physical or virtual) and decision-making algorithms. Energy storage is often included, to reduce the impact of peak supply or demand and to decouple the need for energy to be consumed while it is generated.

The Council will keep a watching brief (in conjunction with subject experts such as the Midlands Net Zero Hub and Energy Research Accelerator) to identify and promote smart energy developments within Derbyshire. Local demonstrators of this approach will encourage uptake and further development.

Furthermore, this workstream will inform, and be shaped by, the Council's Digital Strategy which is currently in development.

### Appendix 3: The Strategic Framework's Delivery Plan

Policy objective	Action	The Council's role	Timescale	Priority workstream
(A) Develop a better understanding of energy grid capacity and opportunities in Derbyshire	(1) Adopt a whole-system Local Area Energy Planning approach for Derbyshire to create a new and effective energy grid	<ul style="list-style-type: none"> <li>• Leadership and Influence</li> <li>• Landowner and manager</li> <li>• Investment pipeline manager</li> <li>• Strategic Planning Authority</li> </ul>	By 2030	Joint working with Derbyshire's Mineral Products Industry to support its investment in becoming a net zero sector through improved network capacity, resilience and flexibility
	(2) Evaluate the readiness of the local distribution network to meet the net zero challenge by: <ul style="list-style-type: none"> <li>• Identifying how constraints can be alleviated in a manner that avoids significant investment</li> <li>• Identifying how greater capacity can be secure e.g. by considering a range of products and services including Active Network Management (ANM),</li> </ul>	<ul style="list-style-type: none"> <li>• Leadership and influence</li> <li>• Aggregation</li> <li>• Strategic Planning Authority</li> </ul>	2023/24 – 2026/27	

	<p>Demand Side Response (DSR) and Flexible connections that are on offer from the Distribution Network Operators</p> <ul style="list-style-type: none"> <li>Identifying solutions for rural areas e.g. private wires between generators and / or battery storage providers and consumers</li> </ul>			
	<p>(3) Understand the different regulatory frameworks that could be applied to the energy market and thereby increase opportunities for a smarter grid (including electricity storage)</p>	<ul style="list-style-type: none"> <li>Leadership and Influence</li> </ul>	2023/24 – 2025/26	
<b>Policy objective</b>	<b>Action</b>	<b>The Council's role</b>	<b>Timescale</b>	<b>Priority workstream</b>
(B) Enabling behaviour change by the county's	(1) Preparation of a "behaviour change	<ul style="list-style-type: none"> <li>Leadership and influence</li> <li>Landowner and manager</li> </ul>	2023/24 – 2026/27	Supporting owner occupier



residents and businesses, so they make positive, well informed and prompt Net zero energy generation and consumption decisions	enabling plan” for Derbyshire with short / medium / long-term perspectives i.e.:	<ul style="list-style-type: none"> <li>• Knowledge sharing and advice</li> </ul>		householders to retrofit through advice and stimulating the home energy efficiency design, installation, and maintenance market
	<ul style="list-style-type: none"> <li>• Providing public information to stimulate interest, debate, and momentum to act.</li> </ul>			
	(2) Identifying solutions - provision of impartial information, guidance and signposting to experts / service providers	<ul style="list-style-type: none"> <li>• Knowledge sharing and advice</li> <li>• Brokerage</li> <li>• Aggregation</li> </ul>	2023/24 – 2026/27	
	(3) Development of products, services, and skills to provide net zero energy solutions that are easy to access, reliable, and affordable; tailored to Derbyshire’s historic building stock	<ul style="list-style-type: none"> <li>• Employment and skills promoter</li> <li>• Brokerage</li> <li>• Funding agent</li> <li>• Investment pipeline manager</li> <li>• Knowledge sharing and advice</li> </ul>	By 2030	
(4) Changing physical and economic	<ul style="list-style-type: none"> <li>• Brokerage</li> <li>• Aggregation</li> </ul>	By 2050		

	environments to enable net zero energy e.g. re-defining structures in society so net zero behaviours are incentivised and unsustainable activity made more difficult	<ul style="list-style-type: none"> <li>• Funding agent</li> <li>• Employment and skills</li> </ul>		
	(5) Co-production of community net zero energy services with the Voluntary, Community, Faith and Social Enterprise Sector	<ul style="list-style-type: none"> <li>• Brokerage</li> <li>• Aggregation</li> <li>• Funding agent</li> <li>• Employment and skills</li> </ul>	By 2030	
	(6) Review of Derbyshire Planning Authorities planning policy to encourage local renewable electricity generation	<ul style="list-style-type: none"> <li>• Strategic Planning Authority</li> <li>• Statutory consultee</li> </ul>	2023/24 – 2026/27	
<b>Policy objective</b>	<b>Action</b>	<b>The Council's role</b>	<b>Timescale</b>	<b>Priority workstream</b>
(C) Supporting the progress of sustainable transport solutions for	1) Preparation of a new Local Transport Plan	<ul style="list-style-type: none"> <li>• Leadership and influence</li> <li>• Funding agent</li> <li>• Investment pipeline manager</li> </ul>	By 2035	Enabling the installation of electric

Derbyshire's communities and businesses, including electric and hydrogen solutions	<p>covering Derbyshire to include:</p> <ul style="list-style-type: none"> <li>• Development of a low carbon, sustainable transport system where active travel and public transport is prioritised and provides an economic opportunity for Derbyshire</li> </ul>	<ul style="list-style-type: none"> <li>• Statutory consultee</li> <li>• Landowner and manager</li> </ul>		vehicle (EV) charging points for public use
	<p>2) Securing wholesale public demand for EV through communications, assurance, and education and in so doing:</p> <ul style="list-style-type: none"> <li>• Maximise the proportion of available government funding for sustainable transport solutions being channelled into Derbyshire</li> </ul>	<ul style="list-style-type: none"> <li>• Knowledge sharing and advice</li> <li>• Landowner and manager</li> <li>• Aggregation</li> <li>• Leadership and influence</li> <li>• Investment pipeline manager</li> </ul>	By 2035	

	3) Explore the use of smart technologies and alternative fuels to reduce the emissions associated with commercial and freight transports	<ul style="list-style-type: none"> <li>• Leadership and influence</li> <li>• Brokerage</li> <li>• Aggregation</li> </ul>	2023/24 – 2026/27	
	4) Identify the nature and scale of EV and other sustainable transport planned preventative maintenance services in Derbyshire	<ul style="list-style-type: none"> <li>• Employment and skills promoter</li> </ul>	2023/24 – 2026/27	
<b>Policy objective</b>	<b>Action</b>	<b>The Council's role</b>	<b>Timescale</b>	<b>Priority workstream</b>
(D) Appropriately using the Council's property portfolio and assets to generate and store energy	1) Prepare an energy generation and storage asset plan for the Council's property portfolio, targeted to: <ul style="list-style-type: none"> <li>• Address grid capacity constraints</li> <li>• Identify the most viable technologies for the property portfolio and</li> </ul>	<ul style="list-style-type: none"> <li>• Leadership and influence</li> <li>• Landowner and manager</li> </ul>	2023/24 – 2026/27	Renewable energy generation on the Council's estate e.g. solar, energy from waste, and water resources

	<p>suitable funding to enable delivery</p> <ul style="list-style-type: none"> <li>• Use energy assets (e.g. battery storage and smart devices) located within the property portfolio, and those of partners, to provide flexibility to local distribution networks</li> <li>• Identify opportunities to generate sustainable income for the Council through savings on corporate utilities costs, sale of energy, provision of energy and flexibility services and identification of avoided future costs</li> </ul>			
	<p>2) Use the Council's procurement of energy to drive the development of nuclear / renewable energy</p>	<ul style="list-style-type: none"> <li>• Aggregation</li> <li>• Brokerage</li> <li>• Investment pipeline manager</li> </ul>	<p>2023/24 – 2025/26</p>	

	generation in Derbyshire			
	3) Collaborate with partners on projects that provide businesses and residents with affordable options to procure technologies, such as rooftop solar panels and battery storage options	<ul style="list-style-type: none"> <li>• Landowner and manager</li> <li>• Knowledge sharing and advice</li> <li>• Aggregation</li> <li>• Funding agent</li> <li>• Investment pipeline manager</li> </ul>	2023/24 – 2025/26	
	4) Identify potential opportunities for financial support from energy projects will support organisations working to alleviate the incidence of fuel poverty in Derbyshire	<ul style="list-style-type: none"> <li>• Leadership and influence</li> <li>• Landowner and manager</li> <li>• Funding agent</li> </ul>	2023/24 – 2025/26	
<b>Policy objective</b>	<b>Action</b>	<b>The Council's role</b>	<b>Timescale</b>	<b>Priority workstream</b>
(E) Collaborating with Derbyshire's industrial and agricultural sectors to support their	1) Delivery of the Council's Net Zero Memorandum of Understanding with the	<ul style="list-style-type: none"> <li>• Leadership and influence</li> <li>• Statutory consultee</li> <li>• Employment and skills promoter</li> </ul>	2023/24 – 2026/27	Re-establishing the Council's formal engagement with Derbyshire's rural

<p>transition to net zero and in so doing enhancing Derbyshire's economic prosperity</p>	<p>Mineral Products Industry which will consider:</p> <ul style="list-style-type: none"> <li>• Alternative fuels</li> <li>• Network capacity and constraints issues</li> <li>• Carbon capture, storage, and utilisation</li> <li>• Distribution logistics</li> <li>• Education and skills</li> <li>• Innovation and significant investment of global scalability and interest</li> </ul>	<ul style="list-style-type: none"> <li>• Strategic Planning Authority</li> <li>• Aggregation</li> <li>• Brokerage</li> </ul>		<p>and farming networks to identify options for joint working on net zero</p>
	<p>2) Mobilising joint working on net zero with Derbyshire's Agricultural Sector, e.g.:</p> <ul style="list-style-type: none"> <li>• Renewable energy generation (solar and wind power)</li> <li>• Energy products – biogas fuel</li> <li>• Carbon capture and storage</li> </ul>	<ul style="list-style-type: none"> <li>• Leadership and influence</li> <li>• Statutory consultee</li> <li>• Employment and skills promoter</li> <li>• Aggregation</li> <li>• Knowledge sharing and advice</li> </ul>	<p>2023/24 – 2026/27</p>	

	<ul style="list-style-type: none"> <li>• Smart farming techniques – boosting productivity and reducing carbon emissions</li> <li>• Soil health</li> <li>• Local production of food</li> <li>• Electric farm vehicles</li> </ul>			
	3) Establish more effective partnership working – with government, with industry, with academics	<ul style="list-style-type: none"> <li>• Leadership and influence</li> <li>• Knowledge sharing and advice</li> <li>• Brokerage</li> </ul>	2023/24 – 2026/27	
<b>Policy objective</b>	<b>Action</b>	<b>The Council's role</b>	<b>Timescale</b>	<b>Priority workstream</b>
(F) Facilitating a modern and smarter digitalised energy system, that brings confidence from consumers, suppliers, and regulators in Derbyshire's Net zero energy transition credentials and financial transactions	1) Establish a route-map to a Modern Digitalised Energy System for Derbyshire that includes: <ul style="list-style-type: none"> <li>• Digitalisation of the Energy System in the consumers' interest</li> </ul>	<ul style="list-style-type: none"> <li>• Leadership and influence</li> <li>• Knowledge sharing and advice</li> <li>• Employment and skills promoter</li> </ul>	2023/24 – 2026/27	Working with expert advisors (e.g. Midlands Net Zero Hub) to identify and promote smart energy developments within Derbyshire



	<p>through legislation and regulation</p> <ul style="list-style-type: none"><li>• Data from the energy generation and supply sector should be available, standardised, and understandable</li><li>• Registration and increasing the 'visibility' of energy infrastructure to enable optimal new investment and inform the creation of new markets / providers</li></ul>			
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