

Meeting Executive
Portfolio Area Environment and Regeneration
Date 20th October 2021



CLIMATE CHANGE – ANNUAL UPDATE (2020-2021)

KEY DECISION

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1 PURPOSE

- 1.1 To provide Members with an overview of the action taken to tackle Climate Change by Stevenage Borough Council and with partners, through our joint working on the Hertfordshire Climate Change and Sustainability Partnership (HCCSP).
- 1.2 The report highlights the need for substantial external funding and support, in particular from Government, and seeks Executive's endorsement of the top 'asks' of central Government in support of our local actions to tackle climate change.

2 RECOMMENDATIONS

- 2.1 That the content of the Climate Change Annual Update (2020- 2021) be noted.
- 2.2 That the Executive agree the following additional measures to support our climate change journey;
- (i) To develop the business case to migrate our corporate and waste fleet to low or zero carbon from 2028, in the interim commit to switching fuel supplies to low or zero carbon alternatives, subject to a detailed business case.
 - (ii) Following the Executive's commitment to accelerate the SG1 Phase 2 programme, including a move to the low carbon Public Sector Hub by 2026, the Council will also develop proposals and a business case to reduce energy use, reduce our physical and carbon foot print of our other Council buildings.
 - (iii) Embed the low carbon ways of working we have embraced during the pandemic in to our current and future ways of working, to continue that carbon saving.
 - (iv) Support residents and business to reduce their carbon footprint by illustrating a comprehensive range of measures they can take, including education and publicity campaign, through a Communication and Collaboration Plan.
 - (v) Provide a total of £8,000 to offer grants to local Stevenage businesses to help transition their business to lower carbon and to supplement bids for low carbon investments. The amount is subject to budgeting for 2022/2023.
- 2.3 That Officers prepare a submission on behalf of the Council's Executive to the Minister of State (Minister for Energy, Clean Growth and Climate Change), making the urgent case for Government to:
- Develop a comprehensive funding plan for the retro-fitting social housing with energy saving measures, including electric heating, insulation, local energy generation and carbon reduction measures.
 - Support Stevenage Borough Council's multi-pound bid to the Social Housing Decarbonisation Fund.
 - Develop a carbon emissions pricing scheme that protects and supports our local business, discouraging the displacement of carbon creation to more vulnerable places while incentivising business to invest in low carbon technologies.
 - Developing and funding a plan for a comprehensive, integrated and funded public transport system to offer people a genuine alternative to car ownership and driving, and a fully funded EV strategy and network. In Stevenage we are building a new bus interchange and bidding for funds to electrify our existing bus services, but the services need to be significantly expanded, reliable and affordable to people.

3 BACKGROUND

- 3.1 The Climate Change Act 2008 introduced the UK's first legally binding target to reduce greenhouse gas emissions by at least 80% compared to 1990 levels by 2050. Strong progress has been made. Between 1990 and 2017, the UK reduced its emissions by 42% while growing the economy by more than two thirds.
- 3.2 On 27 June 2019 the UK government amended the Climate Change Act and set a legally binding target to achieve net zero greenhouse gas emissions from across the UK economy by 2050.
- 3.3 Acknowledging that the 2050 net zero target is not sufficient, Stevenage Borough Council in June 2019 declared a climate emergency, and agreed a motion for the Council to achieve zero carbon for town and Council by 2030. This has been reflected into a Strategy (approved September 2020) and a live Action Plan has been developed to implement the Strategy. To achieve this strategy in full, the Council will require substantial external support and funding from Government to implement the scale of change required in the town.
- 3.4 Our efforts in Stevenage are also supported by the work of Hertfordshire County Council (HCC) which, declared a climate change emergency in 2019, and committed to be net zero for their own operations by 2030 and aim for net zero for Hertfordshire as a whole by 2050.
- 3.5 As a local Council we are estimated to be responsible for about 1% of the direct emissions in the geographical area of Stevenage. This rises to 10% when including the 8,000 Council homes that are managed by Stevenage Borough Council. Through regulations and powers we already have, we can influence change over another 10%-20% of the emissions of the town. This leaves the remaining 70%+ that will individuals and organisations direct action to address. As such we and other local Councils will need to make the case to Government for increased powers and funding to help us reach out shared ambitions to achieve net zero. The funding required is so large most individual businesses or residents cannot fund it themselves.
- 3.6 To achieve our collective ambition for a zero carbon Stevenage by 2030 the Council, central government and our local residents and businesses over time, will have to commit more funding and pay more to achieve it.
- 3.7 All levels of government and stakeholders acknowledge that we can only realise these ambitions for climate change with the support and action of our local residents and businesses. We all must make changes to how we consume and travel to protect our environment. It is an emergency and the time for action for us all is now.
- 3.8 We have identified our fleet emissions and how we work as the way SBC can directly make the most impact alongside regulations and policies. Our 'asks' from government support the areas our residents and businesses are most affected by and for which they can make the most change towards.

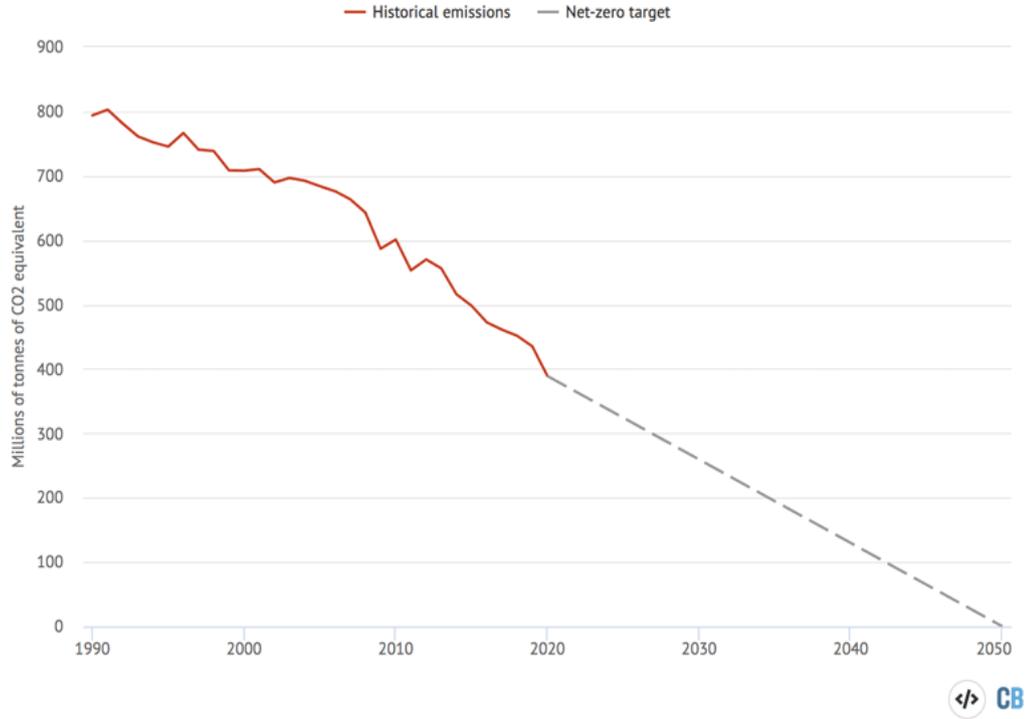
Recommendation 2.1: That the content of the Climate Change Annual Update (2020-2021) be noted.

4 CLIMATE CHANGE UPDATE FOR 2020 / 2021

4.1 The global pandemic and associated ‘lockdowns’ have had a significant impact on climate change during 2020 – 2021. This included an estimated 85% drop in long haul air travel and reductions in all type of commuting, and meant that emissions declined at the fastest rate on record in 2020, an estimated 13% drop. The drop in 2020 marks a record eighth consecutive year of reductions in the UK and much will depend on the recovery in 2021 and beyond to see how much of these carbon savings can be maintained and further improved.

Below details (from the Business Energy and Industrial Strategy Government department) the decline in carbon emissions by sector, showing the drop in carbon from power as the country has switched to increased use of renewable energy, but buildings ,and surface transport remain heavy polluters.

The UK is now halfway to net-zero greenhouse gas emissions
Emissions in 2020 were 51% below 1990 levels



Emissions in Stevenage

- 4.2 The carbon emissions in the Stevenage Borough Council geography dropped by 3.1% in 2019, over 2018 to 340.8 ktCO₂ (Kilo-tonnes of carbon). 350 ktCO₂ is broadly equivalent to 350,000 return flights from London to New York, or 1.2 billion miles driven in a diesel car, and it would need 17.5 million new trees to offset its carbon. The 2018 figure (351.8 ktCO₂) is our baseline as it is the level of emissions when SBC announced its climate change emergency. These are figures produced by central government taking into account a complex array of energy use data and are about a year behind
- 4.3 One of the main achievements for the Council in the last year has been the consultation on and adoption of the Climate Change Strategy and the Citizens Panel. The Strategy is based around 8 themes, reflecting the breath of services offered by the Council. The 8 themes are shown below and our 2020-2021 delivery against those themes is set out below. The traffic light colouring (red, yellow, and green) depicts the progress made against each one.
- 4.4 Some key successes include:
- Drop of over 3% emissions in 2019 over 2018. With an expected 10%+ drop in 2020/2021
 - SBC saved almost 1 million kg of CO₂ in 2020/2021, including switching our main electricity to 100% renewable energy, and printing 400,000 less pages (saving 32 trees and 8,000 kWh/1.7 tonnes of CO₂ alone)
 - Switched our residents survey to digital only, saving almost 20,000 pages of paper being printed
 - Successfully bid for almost £1m investment in reducing carbon in our housing stock
 - Implemented several planning policies to support sustainability, and climate change including first Biodiversity SPD in the region
 - Secured funding, with partners, for sustainable transport projects including developing a plan to become a Sustainable Travel Town
 - Securing £3.75m for cycling, walking and a heritage trail
 - Developing a new bus interchange to promote use of public transport
 - Participation in the set up and development of HSCCP
 - Founding launch authority partner for the UK100 programme and Race to Zero, to lobby central government on climate change
 - New website <https://www.stevenage.gov.uk/about-the-council/climate-change>

People

SBC will produce a Climate Change Comms Plan to help education and inform our residents.

Continue to work with youth groups, Youth Council and local schools to help both understand their Climate Change concerns and also empower them to make changes.

Biodiversity

Tree protection and Planting Strategy

Biodiversity Plan and Actions

Plant over 2,000 trees by 2030

Construct at least 3 new lakes or ponds by 2030

Transport

Electric Taxis and support to drivers to transition their fleet.

Electric Buses, with expanded routes and frequencies.

With HCC, introduce work-place parking charges

Living Streets trials

Decarbonising the SBC fleet before 2030.

Bike and E-bike hire

Energy & Water

Promote cross county purchase of renewable energy supply

Identify opportunities for local renewable energy generation.

Test a Combined Heat & Power Station as part of new swimming pool development.

With Affinity Water & HCC, support their move to zero carbon

Businesses

Lobby government to support our businesses and a Green Recovery

Using our network's shared knowledge to support SME to adapt to climate change opportunities

Share knowledge and improved ways or working across our business community to reduce carbon.

Homes

Energy efficient housing and subsidies for public and private homes

Planning Policy for zero carbon homes on all large scale developments

Zero carbon development at the Station Gateway

Fully electric / zero carbon heat and power on SBC lead developments

Construction & Regeneration

Design a Carbon Neutral new Civic Hub

Work with Regeneration Partners that are committed to zero carbon operations

Fully electric SG1 residential development

Zero carbon state schools

Waste & Recycling

Develop a new Waste Strategy promoting reduction, reuse and recycling

Zero waste to landfill or incineration

With HCC produce biogas

SBC ACHIEVEMENTS IN 2020-2021

- 4.5 We have focused our work within SBC on decarbonising our fleet; recycling; planning; changing our ways of working and our energy use. Outside of SBC we have focus on educating and supporting our residents; empowering behaviour change and sharing best practice. These target the largest sources of emissions and the biggest areas for change.
- 4.6 Stevenage Borough Council was successful in being given outline approval to be the first Sustainable Travel Town in Hertfordshire, with partnership support from Hertfordshire County Council in support for many of our Transport related climate change ambitions.
- 4.7 The Climate Strategy is based on 8 broad themes, set out below:
- People
- 4.8 The only way we can achieve the goal of carbon zero by 2030 is if everyone plays their part. Through educating, engaging, supporting, listening to and communicating with our residents from all background, positions, ages and interests can we collectively make the required changes to our behaviour we need.
- Biodiversity
- 4.9 Ensuring our biodiversity is improved as part of the carbon reduction measures will ensure we have a holistic approach to the wider sustainability impacts we as humans are having on our local ecology. Using nature's natural way of addressing the human impact of climate change is the most effective method of taking action. Ensuring that one area of improvements does not undermine the other is vital.
- Transport
- 4.10 Making up nearly a third of our emissions Transport is a key area for us to address, and one that behaviourally we as residents, employers, employees or visitors make every day. Big changes and support from the Transport Authority can have huge transformational impacts not only on our carbon outputs, but also health and employment opportunities.
- Energy & Water
- 4.11 The source and use of energy has the opportunities to make significant changes in our carbon emissions relatively quickly, particularly while we are still trying to change behaviours. It is expected that the general electrical grid will be fully re-carbonised by 2050 which is too late for our targets, so encouraging all energy users to not only consider where they source their energy from but how much is used, is one of the first major actions. As our temperatures increases, our water usage increases and availability decreases. Hertfordshire is already one of the driest regions in the UK while also using twice as much water as people in places like Manchester. Actions to address leakage and chalk stream sourcing also need to be considered.

Businesses & Homes

- 4.12 Industrial and residential users make up nearly two-thirds of carbon emissions, investment in de-carbonising industrial processes, and home heating / energy use are key areas to support and educated our businesses and residential to make the changes. Government financial support will be required too.

Construction & Regeneration

- 4.13 As a leader in building new homes and regenerating the town centre the Council will have significant powers and opportunities to build better buildings and places, which are designed in sustainable ways, in sustainable locations.

Waste & Recycling

- 4.14 Reducing reusing then recycling need to be at the heart of what we do as a Council collecting and processing waste but also in educating our residents and businesses.
- 4.15 Held against the 8 Strategic Themes, in 2020/2021 we achieved the following results set out on the tables overleaf.

People

- Engagement via broad consultation and tested with a smaller panel
- Focus now shifts to campaign to align with overarching 'clean and green' themes

Biodiversity

- Biodiversity Action Plan in place
- 3 community orchards
- Council adopted Biodiversity SPD to ensure new development enhances biodiversity
- New trees policy implemented for Stevenage to replace on a 2 for 1 basis
- £50k funding for biodiversity projects secured
- Leading partner through HSCCP for Biodiversity, including a Countywide baseline analysis

Transport

- FTFT programme in place
- New EV charging facilities on Swinggate in the town centre
- Local Cycling Walking Investment Programme (LCWIP) in place
- Sustainable Travel Town bid approved
- North Road cycle project at £1.8m from Graveley Road to Old Town
- 8 new public EV charging points across the Borough in car parks.
- New bus interchange, close to the train station, improved facilities connections to support modal shift. Enabled with the hard infrastructure to be EV ready
- Interlink bus partnership
- New eye-catching cycle ranks and storage facilities in the Old and New Town centres
- Consulted and adopted on adopted Sustainable Transport Supplementary Planning Documents (SPD)
- Jointly leading through HSCCP on county wide travel emissions reductions and modal shift strategy.
- In stopping the community transport offer, we have removed the old buses and saved saving 7,800 miles of driving.

Energy & Water

- SBC main energy contract changed to zero carbon saving carbon
- Work to rationalise assets in town centre into enhanced facilities via regeneration programme (Hub)
- Working with Affinity Water to support their 2030 net zero target

Business

- Engagement planned through the Collaboration and Communication Plan.
- Mapped all large businesses carbon commitments
- Establishing a Stevenage Together and Smartgo Stevenage sub group on Climate Change.

Homes

- Awarded £1m for retrofit projects in Stevenage Borough Council homes
- Resolution to grant SG1 planning application with over 1,800 units, with zero gas
- Resolution to grant North of Stevenage planning application with a 38 ha country park, SUDS, and 2250+ new trees
- Committed to electric boilers in our new housing schemes from 2023 onwards

Construction and Regeneration

- SG1 application, baseline for electric only heating with higher standard for schemes
- £3.75m funding secure for walking, cycling and heritage trail
- Securign £37.5m Towns Funding
- Housing Development, triple glazing, solar power and other low carbon housing
- Regeneration refurbishments in the town centre, at North Queensway

Waste and Recycling

- Work on waste policy to help improve collection methods and clarity for customers
- National waste strategy under consultation and SBC Strategy to be completed in 2021
- Commitment to Food Waste collections for residential properties in Stevenage from 2025

Working with partners: Hertfordshire Climate Change and Sustainability Partnership

- 4.16 A crucial element of our approach is to work with other local government partners to help secure investment, business cases and to find ways to collectively reduce our carbon footprint and improve sustainability.
- 4.17 The Hertfordshire Climate Change and Sustainability Partnership (HCCSP) consists of all 10 districts and the county council, plus the Local Enterprise Partnership. HCCSP is a strategic group which acts as the lead partnership organisation for partners to collaborate and identify joint work programmes on environmental, climate change and wider sustainability issues
- 4.18 SBC are proactive participants in the Hertfordshire Climate Change and Sustainability Partnership (HCCSP), with the Chief Executive the lead Officer sponsor for the HCCSP work plan and we are supporting on two of the four main themes for which detailed action plans are being developed:
- Biodiversity
 - Carbon reduction
 - Transport
 - Water.
 - New : Behavioural Change
 - New: Climate Change Adaption
- 4.19 Much of the strategic work is being focused through HCCSP to harness the power of a county of over 1.2 million people. The themes fed into our own 8 themes and it is through this work with HCCSP we are delivering on our own objectives at a greater scale. Large amounts of work have been done already, including producing and agreeing 3 of the 4 Action Plans. A summary of HCCSP's outputs are in the background papers.

5 HOW WE ARE WORKING

Engagement

- 5.1 To inform the strategy and action plan, extensive consultation has taken place. An open consultation in 2019/2020 achieved wide and broad engagement across the town, with 1,600 responses helping shape the strategy. Key priorities identified by residents included making a change to their method of travel and eating habits.
- 5.2 A representative Citizen's Panel met in October 2020, an Executive Summary is in the background documents. Their aspirations are being incorporated into our various action plans and work, and the key areas they would like us to focus on are:

Improve communications and recycling awareness incentives to public and commerce

Zero Food Waste Town

Implement climate emergency education and create awareness for Stevenage residents, businesses, and visitors

Establish a collaborative framework to achieve sustainable infrastructure to reduce pollution

5.3 We are continuing our engagement and feedback with Friends of the Earth local group, w has also fed into this update.

5.4 The climate change strategy commits to an annual Citizen's Panel, with a new group to be recruited for late 2021 to review the work so far and feed into the Collaboration and Communication Plan.

Governance

5.5 A Member working group is in place, Chaired by the portfolio holder for Environment and Regeneration. The group includes the portfolio holders for Transport & Economy; Housing, Older People and Health; Environment and Regeneration; the Chair of the Environment and Economy Select Committee.

5.6 The climate working group sub group on Youth engagement and a Planning Committee sub group will be led by Cllr Speller.

5.7 The Environment and Economy Select Committee have committed to reviewing the delivery of the climate strategy and action plan over a two year period, with an expectation that the climate actions planned and required in each portfolio area will be subject to review.

5.8 There is a cross-party member led group within the HCCSP, which Cllr Gardener (as portfolio holder for Environment & Regeneration) attends and contributes towards.

5.9 Over the last two years, a significant amount of preparation work has been undertaken to engage residents and businesses, work with partners and focus on deliverable actions that can achieve the goals of the Stevenage Borough Council Climate Strategy. We are working closely with partners through Stevenage Together, to share our experiences on climate change, speak with a single voice to government and support our residents, and customers to reduce their emissions.



6 2021/2022 ACTION PLAN

- 6.1 This report provides a review of the progress made in the last year, and a forward look to anticipated priorities for future years. The Council has made positive progress over the last twelve months, with limited additional resources available to tackle climate change and substantial focus on addressing the severe impacts of the Covid-19 pandemic. As the report sets out, a number of bids for funding have been successful, several smaller scale local projects have been undertaken and significant work agreed to change our longer-term policies that shape and influence the town and its community.
- 6.2 It is recognised that the scale of the challenge presented by the pandemic is very sharp and all public bodies, Government, businesses, communities and individuals will need to take further steps to achieve our shared aim. This will require substantial additional investment from the Government, and to be able to address some of the most impactful measures that the Council can take, will require substantial investment and reprioritisation of resources by the Council – and in the town, by businesses and investors.
- 6.3 **Priorities for 2021 / 2022 include:**

We have set a range of proposed priorities for the next 12 months. This includes:

- Establishing our carbon savings for 2020/2 and look to report to CDP Cities carbon disclosure insight programme in 2021/2022
- Spending £100k+ on biodiversity improvements
- Doubling EV charging capacity in the town
- Demonstrating local changes, such as Council Wardens to use bike / E car clubs or walk on their site visits.
- Delivering c. £1m investment in reducing carbon in our housing stock
- Continuing the roll out of new lower carbon SBC homes
- Local Councillors committing to paperless committees as a carbon reduction exemplar
- Developing a new Waste & Recycling Strategy to increase recycling and improve sustainability
- Develop a leading zero carbon Planning Policy for the Station Gateway development
- Complete the business case for a bike / E-bike hire scheme
- Anticipated implementation of the Sustainable Travel Towns plan for Stevenage, an exemplar in Hertfordshire
- New bus interchange
- Support over 250+ staff to stop commuting by car at least twice a week
- Implement the Collaboration and Communication Plan.

6.4 There are still major challenges ahead to achieve net zero, including work to engage the public and businesses along with lobbying government for funding.

As such this report is seeking further commitments from the Council's Executive for additional support to help meet our 2030 target in the form of:

Recommendation 2.2: That the Executive agree to the additional following measures to support our climate change journey

- 6.5 That the Executive agree the following additional measures to support our climate change journey;
- (vi) To develop the business case to migrate our corporate and waste fleet to low or zero carbon from 2028, in the interim commit to switching fuel supplies to low or zero carbon alternatives, subject to a detailed business case.
 - (vii) Following the Executive's commitment to accelerate the SG1 Phase 2 programme, including a move to the low carbon Public Sector Hub by

2026, the Council will develop proposals and a business case to reduce energy use, reduce our physical and carbon foot print of our other Council buildings.

- (viii) Embed the low carbon ways of working we have embraced during the pandemic in to our current and future ways of working, to continue that carbon saving.
- (ix) Support residents and business to reduce their carbon footprint by illustrating a comprehensive range of measures they can take, including education and publicity campaign, through a Communication and Collaboration Plan.

7 COP26

- 7.1 In October 2021, the COP26 summit will bring parties together to accelerate action towards the goals of the Paris Agreement and the UN Framework Convention on Climate Change.
- 7.2 The UK is committed to working with all countries and joining forces with civil society, companies and people on the frontline of climate change to inspire climate action ahead of COP26.
- 7.3 We will be working with HCCSP for a Herts wide promotion and activity and offer a local series of engagement to simulate behavioural change, including a live Sustainable Hertfordshire Eco-Fair event at County Hall on the 6th of November 2021.
- 7.4 Stevenage will be hosting a 'Stevenage Together' Climate summit for local public sector and voluntary partners, to compare our plans, key areas of action and our asks of government.
- 7.5 The press interest and coverage that will come with COP26 will support our local campaign work. We also expect central government to set up their funding for carbon reduction measures too. We are therefore going to write to the Minister of State to ask for specific measures we believe will best address climate change.
- 7.6 It is clear that the Council will require support from Government to achieve the scale of reduction necessary to secure a Net Zero position. It is recommended that the Council works with partners to engage Government, to make the case for substantial investments to decarbonise key local assets. This would be based on investment into social housing stock, to reduce emissions, improve the local supply chain of skilled practitioners who could then support private landlords. It also would require a concerted focus on measures to decarbonise the transport system, including a clear EV charging strategy and funding plan that can be rolled out nationally, with local support, along with further investments into walking, cycling and bus infrastructure.

Recommendation 2.3: That the proposed 'asks' of government (in para 7.4) be part of a formal letter send on behalf of the Council's Executive to the Minister of State

7.7 Our 'ask' of government as part of their COP26 commitment

- Develop a comprehensive funding plan for the retro-fitting social housing with energy saving measures, including electric heating, insulation, local energy generation and carbon reduction measures.
- Support Stevenage Borough Council's multi-pound bid to the Social Housing Decarbonisation Fund.
- Work with local communities and businesses to explore a carbon emissions pricing scheme that protects and supports our local business, discouraging the displacement of carbon creation to more vulnerable places while incentivising business to invest in low carbon technologies.
- Developing and funding a plan for a comprehensive, integrated and funded public transport system to offer people a genuine alternative to car ownership and driving, and a fully funded EV strategy and network. In Stevenage we are building a new bus interchange and bidding for funds to electrify our existing bus services, but the services need to be significantly expanded, reliable and affordable to people.

8 IMPLICATIONS

Financial Implications

- 8.1 The costs associated with producing and consulting on the climate change strategy have been met from the agreed departmental budget. A number of projects referenced within this report have secured third party funding from government and other sources, such as s106 agreements, to be able to pilot initiatives, or to improve sustainable travel assets.
- 8.2 The change in energy provider to a low carbon alternative has been approved and met from the agreed departmental budget.
- 8.3 As the report identifies, for councils to meet net zero, by 2023, significant funding will be required from central government and/or third parties to fund the cost of large scale projects such as implementation of Electric Vehicle charging networks, retrofit of council housing stock and commercial and operational buildings.
- 8.4 As the Council works on options and future projects to achieve the ambition of being a net zero carbon Council and town by 2030, Officers will need to bring forward a number of business cases. If the government does not step in to support the local government sector and the Council is required to provide the investment then a significant reprioritisation of other projects and activities would be required to progress highly complex projects to absorb increased revenue and capital costs.

Legal Implications

- 8.5 There are no direct legal implications associated with adopting the Climate Change Strategy, however it is likely the Government will begin introducing stricter targets with legal implications for those Councils that are not meeting carbon reductions.

Risk Implications

- 8.6 The greatest risks associated with this work are failing to secure sufficient support from residents, businesses and government to protect us all from the effect of climate change.

Policy Implications

- 8.7 The Annual Update on Climate Change supports our own Climate Change Strategy and wider corporate ambitions for a low carbon future.

Climate Change Implications

- 8.8 This report highlights the risks, challenges and opportunities we have to address not only carbon emissions but our wider climate change aspirations.

Equalities and Diversity Implications

- 8.9 Climate change affects those in most need both in the UK and around the world. Those in deprivation, hunger or unwell are both most affected by climate change and least able to address it. Therefore we are duty bound as those of us in the world that are more able to act, to act now.

BACKGROUND DOCUMENTS

BD1 - HSCCP update

BD2 - SBC Climate Change Strategy

BD3 - Citizen Panel Executive Summary

BD4 - Draft Communication and Collaboration Plans

BD5 - Climate Change info-graphic