

ID	ACTION	UPDATE FOR OCT 2023
T1	Reviewing our Joint Local Transport Plan to confirm the policies which will substantially cut greenhouse gas emissions, including reviewing our transport major scheme programme to prioritise our schemes in terms of their carbon and environmental impact.	Ongoing work is reviewing JLTP4, and decarbonisation is a priority for the review. Major transport programmes must contribute to this. Informing the update will be the transport decarbonisation modelling work, which includes the carbon impacts of major transport schemes. The June Mayoral Combined Authority Committee agreed a funding allocation and adoption of the update is scheduled for July 2024. There is a delay from national government producing the LTP guidance.
T2	Increasing the pace of transport decarbonisation by progressing plans and implementing demand management measures	The City Region Sustainable Transport Settlement (CRSTS) Package of corridor schemes is ongoing . An update to JLTP4 is under-development and working with the UAs we will further discuss the role for policies such as parking management and pricing, work place parking levies and congestion charging. This work will be informed through public engagement, recognising the Bristol Mayor's recent decision to not progress a workplace parking levy at this current time.
T3	Supporting councils in their efforts to strengthen car parking policies and prioritising accessible locations and sustainable travel in new development through their Local Plans	This work is ongoing through work on the JLTP. See LCT1 for more information.
T4	Developing detailed plans for a liveable neighbourhood in Bristol and confirming areas to deliver liveable neighbourhoods in B&NES and South Gloucestershire with a view to rolling out a programme of delivery across the region to reduce reliance on cars.	We have successfully worked with Bristol City Council to develop and approve an outline business case to unlock funding for an onstreet trial of a liveable neighbourhood in East Bristol. Ongoing work on this will launch the trial scheme in winter 2023. We have worked with South Gloucestershire to successfully develop applications for development funding for design, consultation and trials of 2 liveable neighbourhood in yate and Thornberry, to develop their full business case. Ongoing work is to complete trials and develop a full business case by winter 2025. We have worked with Banes to successfully develop an application for design, consultation and trials for 15 smaller liveable neighbourhood schemes across BANES. Ongoing work is to complete trials and develop a full business case in 2024.
T5	Launch and trial Mobility as a Service scheme – a one-stop-shop to deliver a regional digital journey planning, booking, ticketing, payment and information solution	Design development is ongoing , with Alpha testing successfully completed earlier in the year. The project is currently in Beta testing. The minimum viable product is planned for release later this year with a public launch in 2024.
T6	Explore and secure investment in further innovative transport solutions and services to reduce car and freight trips (including alternative fuels such as electricity, hydrogen and biofuels) as well as social and planning innovation.	Horizon scanning process has been successfully developed and implemented, which will include horizon scanning for transport related solutions and services. Work is ongoing to develop our channels of internal communication for flagging opportunities to relevant teams, and working together to bid for and implement investment opportunities. Also in development is a 'Knowledge Hub to consolidate and centralise' learning across the FTZ programme that will enable others to apply the lessons learnt and build on progressing towards net zero transport by 2030
T7	Delivering 16 (TCF, ATF and CRSTS) walking, cycling & wheeling schemes and work with partners to submit applications for additional schemes to future active travel fund (round four).	We have successfully appointed contractors for Active travel fund 3 schemes - Cotham Hill, Old Market Gap, and work has begun on Cotham Hill and on site work is imminent at Old Market Gap. Ongoing schemes under CRSTS and Active Travel Fund 4 continue with their development and business case work. Cycle hangers funded by the transforming cities fund was successfully delivered onsite in Bristol in April 2023.
T8	Deliver 30 cycle hangars in Bristol, and explore feasibility of wider regional rollout	31 cycle hangars have been successfully delivered in housing sites around Bristol city centre as of April, and 20 hangars delivered and due for imminent installation in Bath. A feasibility study was completed to look at cycle hangar provision across the West of England, and this has helped result in a successful £915k bid to provide up to 80 hangars for the region by autumn 2024.

T9	Deliver walking, cycling and wheeling routes within new strategic transport corridors being delivered under the CRSTS, integrated with delivery of green infrastructure.	We have successfully undertaken the Somer Valley links consultation engaging with communities, discussing the choices to be made enabling sustainable and active travel along these corridors. We started the public engagement for the Bristol to Bath Sustainable transport corridor in August 2023. Both corridors are investigating Biodiversity Net Gain opportunities, and Bristol to Bath is exploring a natural capital assessment.
T10	Deliver improved walking, cycling and wheeling facilities across Yate Station, Ralph Allen School in Bath, Concorde Way and Clapton Road in Midsomer Norton; and subsidising rental schemes and training, including Bristol Family Cycling Centre via £680k investment	Through our £680k revenue allocation from Capability and Ambition Fund 22/23, we are successfully supporting the Unitary Authorities on the delivery of active travel behaviour change initiatives in each of their areas, including cycle training, bike maintenance, business grants and engagement events with schools and businesses. These activities are now well underway. This funding has also been used to commence development, design and scheme planning work for a pipeline of future walking and cycling infrastructure improvements. Development work is ongoing for upgrades to walking and cycling infrastructure on a number of key routes, including the Concorde Way in Bristol and South Gloucestershire.
T11	Supporting councils and regional partners in their walking and cycling initiatives including working with employers and communication campaigns, and in traffic management schemes	
T12	Run 'WEST Link' fleet of 'on demand' minibuses to connect people to our bus corridors (Demand Responsive Transport)	We successfully launched the service in April 2023 and it is now regularly used by 2000 users a week. Work is ongoing to complete a 3 month review to learn lessons and update the service as appropriate.
T13	Deliver Dynamic Demand Responsive Transport (DDRT) trial in north Bristol to connect people to major employment opportunities and other key destinations such as Southmead Hospital	Service successfully launched in April 2023 as part of the WEST link operations (see LCT12). The three-month review is currently being considered. Monitoring and Evaluation is ongoing .
T14	Build 13 green roofed solar-powered bus stops, as well as improving wildlife areas around them, this year and deliver a further 300 in subsequent years under CRSTS	All 13 shelters green roofed were successfully delivered up to May 2023, with a further 37 shelters upgraded. The additional bus shelters are being delivered as part of CRSTS.
T15	Implement fare capping in place for adult single trips and develop a single ticket solution to simplify residents' journeys across the region through BSIP.	Fares Package 1 of a £2 adult fare and £1 child fare cap was successfully launched in September 2022 to run until the end of Bus Service Improvement Plan (BSIP) in 2025. Fares Package is now partially launched through the successfully launched Birthday Offer commencing in August 2023. Ongoing work will provide offers for care leavers, due to launch in October 2023.
T16	Improving frequency and accessibility of trains through delivery of new train lines and stations (via MetroWest Phase 1a, Phase 2 and CRSTS),	Successfully delivered enhanced rail services to Westbury and Gloucester May 2023 meeting the set milestones. Additionally, working with Bristol City Council, we have successfully delivered a new train station at Portway. We have also successfully commence construction of a railway station at Ashley Down, meeting the milestone for this project and exceeding the initial delivery schedule.

T17	Delivering up to 256 electric vehicle charge points and up to 362 charging bays by investing £5m (informed by EV Investment Proposal, agreed at April 2022 WofE Committee)	<p>The Final Business case for £4.9m of GRF investment into EV charging infrastructure across the West of England was successfully approved at West of England CEOs on the 28th June 2023.</p> <p>Ongoing work is needed to ensure compliance with Subsidy Control 2022 legislation so that formal Decision Notices and Grant Offer Letters can be issued and the project taken forward into the next phase of development: National Grid engagement and detailed design ahead of construction. Formal briefing notes to WofE Directors of Infrastructure and the Metro Mayor on this process will be issued in the coming weeks.</p> <p>UAs have provided match funding this scheme (£692k). This has been used to accelerate delivery of some elements of the scheme while the FBC has been in approval, so the first points are expected to come online in SGC in the next quarter.</p>
T18	Commence a new contract for micro-mobility to enhance scooter hire provision and introduce on-street ebike hire in the Bristol Bath areas	<p>Following a successful procurement exercise and new operator Tier in contract, we are currently mobilising for start of dual e-scooter, e-bike and e-cargo bike operations from October 2023 for minimum of 2 years, up to a maximum of 4 years. Innovative industry leading new contract sets clearly defined specification of services, well defined performance metrics with financial penalties (e.g. bad parking), and income stream to the Mayoral Combined Authority to cover administrative costs and further regional investment.</p>
T19	Deliver our sustainable urban freight trials, introducing e-cargo bikes in university and hospital campuses, 'parcels as passengers' on trains and 'local high-street aggregator' to consolidate local neighbourhood deliveries	<p>We have successfully commenced Campus trials with ongoing work seeing additional hosts mobilising. 'Parcels-as-Passengers' trial has successfully passed testing and ongoing work is seeing Aggregator trial commenced. Work is ongoing to develop the feasibility of further trials such as dynamic kerb space management.</p>
T20	Supporting our councils in maintaining Clean Air Zones and in their electrification and decarbonisation of their fleet by publicly backing them	<p>Clean Air Zones have been successfully implemented in Bath and Bristol city centres. Such policies encourage the take-up of electric vehicles in the general vehicle fleet to reduce carbon emissions, as well as the authorities' own operational vehicles. An Electric Vehicle Strategy is ongoing to accompany the update to the Joint Local Transport Plan and the Mayoral Combined Authority is working with the councils in the rollout of electric vehicle charging points.</p>
T21	Build our region's hydrogen economy by exploring opportunities for green hydrogen electrolysis and piloting application of hydrogen as a transport fuel in sectors difficult to electrify (including HGVs operating locally, such as busses and in goods distribution)	<p>We have joined a collaborative consortium and successfully secured EPSRC funding for furthering hydrogen research in the West of England, with a focus on place. NEWS CURRENTLY EMBARGOED. We have also submitted a Local Industrial Decarbonisation Plan bid, to resource developing a plan including for the role of hydrogen (see B&S17 for more details). Work is ongoing through our participation in Western Gateway and Hydrogen Southwest working groups to further this action.</p>
T22	Agreeing a regional framework for how transport projects will minimise their impact on nature, through interventions such as nature-based solutions to road run-off, wildlife kerbs, and regular and targeted cleaning of gullies.	<p>The Environment Team has successfully recruited Senior Managers for nature recovery and a Senior Manager for transport. Their ongoing work with colleagues will see CA projects consider and implement (where viable) nature-based approaches; and collaborative work between CA and UA transport teams will then build this into a regional framework.</p>
T23	Agree regional priorities for retrofitting of existing transport infrastructure to reduce its impact on nature	<p>This work is ongoing. Maintenance of existing transport infrastructure is the responsibility of UAs as Highway Authorities; in addition to Network Rail and Highways England for rail and motorway infrastructure respectively. The CA's Senior Environment Manager coordinates Natural Environment Officers Steering Group and joint Green Infrastructure Strategy meetings with UAs. Through these, and work is ongoing to consider these - including backfilling Green Infrastructure officer resource.</p>

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BP1	Run the Retrofit Accelerator Phase I Homeowner Advice Service to increase the scale and pace of retrofit, creating a hub for homeowners to access information on retrofit . Forecast to advise 10,600 households, resulting in 5,250 homes being surveyed and delivering 4,200 measures in 1,400 households over the next 2 years	The Retrofit West Advice service was successfully launched on 7th July, with 100 people attending. It was hosted by Metro Mayor Dan Norris with guest speaker Ed Miliband MP. The service is delivered by Retrofit West CIC, which was set up by the Centre for Sustainable Energy. Ongoing work sees the service run via the free advice through an email and freephone and a website where residents can build a retrofit plan. Residents can go on to purchase a discounted whole house retrofit survey. A Retrofit Strategic Steering Group has been set up to guide the Retrofit West project.
BP2	Expanding the domestic retrofit supply chain via the £2m Retrofit Accelerator Phase IIa, supporting a minimum of 350 small and micro businesses, and Phase IIb (£200k) to integrate retrofit understanding and awareness into our Futureright coaching service, and other skills offerings	Following the return of one Expression of Interest from Retrofit West CIC and stakeholder consultation at the Retrofit West launch in July, the Business Support Delivery Provider grant call was successfully launched 27 th July. To allow for multiple providers to respond to the grant call it will be open from 21 st August until 15 th December, with ongoing work seeing these evaluated as applications are received. We anticipate this will facilitate the first business offer from November 2023.
BP3	Deliver the Innovative Housing Retrofit Scheme, insulating 50-75 hard-to-treat homes within the region; and seek funding to expand the scheme to further demonstrate new approaches for wider roll out (e.g. offsite manufacturing)	Work to deliver the three innovative retrofit projects is ongoing . Having completed pre-deployment work including engagement events and property surveys the teams plan to begin installing measures from late August and all remain confident they will complete as anticipated by March 2024.
BP4	Carry out up to 400 free carbon surveys for small & medium sized enterprises (SMEs) to help them understand and reduce their energy use, carbon footprint and other environmental impacts	Carbon Surveys were successfully reopened in February with reviewed and expanded eligibility criteria. Work is ongoing to widen the scope, initially looking at climate resilience and nature recovery.
BP5	Provide c225 SMEs with grant funding to make energy saving improvements and install renewable energy via a new £2m Green Business Grant fund	Green Business Grants Round 4 was successfully launched in June with reviewed and expanded eligibility criteria. Work is ongoing to increase business engagement, particularly in previously unsupported locations and industries. We are rethinking our plans to spend remaining Recovery Fund for strategically important but low-uptake projects such as heat pumps, with the intention of awarding higher grants and a dedicated marketing campaign.
BP6	Promote grant-funded domestic retrofit programmes in our region including those via the South West Net Zero Hub , Warm & Well in South Gloucestershire, Energy at Home in Bath & North East Somerset and City Leap domestic retrofit in Bristol	This work is ongoing through the Retrofit West Advice Service (see LCBP1); and through SW Net Zero Hub Retrofit Programmes, in particular the Local Energy Advice Demonstrator competition (see NZE3). More information available here: https://www.swnetzerohub.org.uk/what-we-do/housing-retrofit/

BP7	Work with public sector partners and the South West Net Zero Hub to secure funding, develop strategy and deliver decarbonisation projects on public land and buildings	<p>The Hub has successfully supported £2,355,234 worth of PSDS Phase 3b funding Grants to deliver successful capital for retrofit bids including:</p> <ul style="list-style-type: none"> •Bath and North East Somerset Council •North Somerset Council •Plymouth CAST Multi Academy Trust •South Gloucestershire Council •Torbay Council <p>The Hub also successfully supported £99,848 of LCSF grant funding applications, providing revenue grant to develop estate decarbonisation plans. LCSF phase 4 had a £17m pot of funding and £130m of applications making it highly competitive, not helped by the come first serve competitive nature of the programme.</p> <p>The Hub's work is ongoing, continuing to support public sector organisations on estate decarbonisation; and working with DESNZ on the HPD Research Project Steering Group</p>
BP8	Develop a range of sustainable funding mechanisms for retrofit and the transition to non-fossil fuel reliant heating within the region to secure private and government funding	<p>A tender for development of a pan-regional full business case for a potential fund to support retrofit finance for able-to-pay consumers was successfully awarded in July 23, and work to complete this is ongoing by the consultants with oversight from both CA and SW Hub Funding & Investment Managers, due to be completed in November 23. The CA launched recruitment in August 23 for a Project Officer to develop the Business Case for this, working with the Funding and Investment Manager.</p>
BP9	Develop our retrofit approach by improving our knowledge on existing housing and retrofit requirements – working with funders to collect data needed in securing investment	<p>A review of Energy Performance Certificate EPC data at local and regional level has been successfully carried out and will be published shortly on the website. A Retrofit Strategic Steering Group has been set up to oversee ongoing work on funding investment and data requirements.</p>
BP10	Publicly support Local Councils and the South West Net Zero Hub in adopting and enforcing net zero and BNG new build standards for new developments across the region through local planning policy	<p>The Hub has successfully supported B&NES in analysing planning applications (in collaboration with the University of Bath), following the introduction of their new planning policy in January 2023. Ongoing work will see a relevant report published in Autumn 2023, discussing our findings on the industry's response to the new policy. The Hub are supporting project partners seek funding opportunities that will allow us to extend the project and support more Councils in developing effective net zero planning policies.</p>

- BP11 Review and coordinate regional development and adoption of innovative environmentally-positive design and construction approaches (such as Bristol Housing Festival establishing a Regional Centre of Excellence in Housing Innovation; and Design Codes incorporating wildlife habitats such as swift boxes)
- The CA are in the process of transferring £100k, secured from OPE, to Bristol to advance their MMC project. **Ongoing** work is reviewing £250k the CA earmarked within its Investment Fund for "Regional Modern Methods of Construction, Development & Delivery" – for a programme to build capacity for MMC/OSM housing development and delivery across the region, with the aim of making it commonplace. Ongoing collaboration on environmentally positive design and construction policies is via the WoE climate change and sustainability planning policy collaboration working group - including reps from CA and each UA, including N Somerset.
- BP12 Coordinate rollout of heat pumps with local councils and National Grid Electricity Distribution, to accelerate rollout and maintain electricity grid resilience accommodates transition
- Work here is **ongoing**. A collaborative joint meeting between officers from the CA and each UA has been held with National Grid (NGED) area distribution managers; Bristol were successful in their Heat Pump Ready bid, and learnings from this and their work with NGED. Additionally, NGED are a member of the West of England's Climate and Nature Action Panel; and the Environment Directorate are engaging at senior levels in both National Grid Distribution and Transmission companies. This work also links in to considerations on Local Area Energy Plans (LAEPs) and similar initiatives, considered separately within the Committee Paper.
- BP13 Develop a heat pump engagement and collective buying scheme, with corresponding local supply chain support, targeting delivery of an additional 1000 heat pumps across our region over 2 years
- Work is **ongoing**. Specialist organisations including CSE, SWEA and Nesta have been engaged on principle of idea. Not without its challenges, primarily accurately targeting households who could benefit from a heat pump without prior retrofit work - and will be informed from Bristol's Heat Pump Ready project. Action also needs Retrofit West (formerly Retrofit Accelerator), including home owner advice and supply chain support in place. Development of this heat pump engagement and collective buying to be progressed as part of regional environment engagement.
- BP14 Agree cross-border collaboration agreements to support expanding the Strategic Heat Main within City Leap and other heat networks across the West of England
- The CA **successfully** joined both Bristol and South Gloucestershire Authorities in supporting Bristol City Leap's Vattenfall engaging senior stakeholders for the Strategic Heat Main. **Ongoing** work sees Vattenfall considering the commercial viability of progressing with this, with an initial decision on progressing investigations and follow-up with key stakeholders expected this Autumn.

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NR1	Deliver improvements to existing natural green spaces such as through Common Connections. £3m in Chew Valley Lake, developing investable business cases for improvements at Bath Riverline and Waterspace Connected.	Our ongoing work to oversee delivery of these three projects continues. Common Connections is the delivery of well-connected and diverse common areas on the north east fringe of Bristol. 19 sites will come forward under this project that will increase habitat connectivity, and wider GI benefits include food provision, biodiversity enhancement and access to open space. Chew Valley Lake is the delivery of a multifunctional and accessible walkway - Chew Valley Lake Recreational Trail. The FBCs are split into the northern and southern section of the trail. The project will deliver access to nature, recreational benefits, enhance the yearly rural economy and local tourism, and deliver environmental protection to the European protected site. Water Space Connected includes the delivery of Somerdale Bridge as a key point of connectivity for the Water space Avon Corridor. This is an access to nature project, facilitating better connectivity for the communities of Keynsham to the River Avon trail and AONB.
NR2	Deliver access improvements to existing water (blue) spaces including £3m investment at Chew Valley Lake and developing business cases for improvements at Bath Riverline and Waterspace Connected.	This is ongoing . Identification of priorities for nature recovery and 'areas that could become of importance to biodiversity' has been delayed from July 2023 to November 2023. Final LNRS to be complete by June 24. This is due to the significant delay to publication of the DEFRA Guidance and Regulations Project Manager based in Bath and North East Somerset (Stuart Gardner) overseen by West of England CA Nature Recovery Manager.
NR3	Develop a Local Nature Recovery Strategy that provides a coherent regional vision and map for nature's recovery, building on the West of England Nature Recovery Network and helps direct investment effectively into the natural environment	This work is ongoing . Detail on Multiply and Workforce for the Future updates is found in the Business & Skills section. Natural History Consortium are also delivering a Pesticide Reduction Campaign as part of their Round one Community Pollinator Fund project.
NR4	Develop a regional agreement for public sector bodies to reduce the use of pesticides on their estates, with an aim of eliminating use altogether.	The Pollinator Fund continues to provide residents access to nature (see NR10); as does Green Futures and the Community Support Fund (see Business & Skills action updates). Ongoing work will see these and other opportunities promoted as part of regional engagement, where increasing participation and enabling volunteering in nature form one of the West of England's key nature recovery objectives.
NR5	Provide residents access to volunteer in nature recovery projects and the natural environment jobs market via Pollinator Fund, Green Futures, Community Support Fund and other grassroots skills programmes	We're successfully facilitating tree technicians via the Forest of Avon Trust from funding received from the Tree and Woodland Accelerator Fund in each Unitary Authority. The West of England Combined Authority also funded Forest of Avon Trust Tree and Woodland Strategy, plus funding strategic planting of trees and habitats through our pollinator projects. We also funded the Great Avon Wood through the Forest of Avon Trust, as well as other projects funded through the Green Recovery Fund Nature Recovery Projects. Ongoing work sees us engaging with Infrastructure Team to ensure opportunities to develop Green Infrastructure alongside strategic transport corridors are maximised.
NR6	Plant more trees and create habitats along strategic corridors and rivers (incl. CRSTS and strategic nature recovery networks)	Work is ongoing . We have recruited a data analyst to gather evidence on the state of nature in the region, to inform the West of England Local Nature Recovery Strategy and better target funding for nature-based projects in the region. We have scoped options for a data platform and agreed funding. We have scoped options for a wildlife index and are identifying routes to delivery. We're also working with partners through the West of England Nature Partnership Environmental Data Group. Plus working with University of Bristol to develop Wildlife Index to meet need for monitoring and evaluation of natural environment throughout the West of England region.
NR7	Develop a monitoring framework (data platform and ecological baseline) for the regions natural environment to enable us to measure progress towards our ambitions, including the possibility to use a wildlife index to measure abundance and diversity of wildlife amongst the current ecological network	This work is ongoing . In addition to NR7 above, the CA is working with University of Bristol to explore opportunities for a Wildlife Index to meet need for monitoring and evaluation of natural environment. This will compliment our work on LNRS, for which we are to procure a data platform to host Nature Recovery and wider Environmental data - supported by our recently recruited Senior Environmental Analyst.
NR8	Develop innovative new ways of observing and monitoring the natural environment	Work is ongoing . In addition, we have secured Leveling Up Fund money from the Department for Levelling Up, Housing and Communities to develop Strategic Outline Business Case for Landscape Scale Nature Recovery Project spanning Limestone Link, Bathscape and Lower Woods - currently out to tender. Nature Recovery Partnership Officer post to help maximise opportunities from the projects we're funding has been approved.
NR9	Set up a region wide project that aims to understand the health of, and management approaches applied to the region's protected sites.	
NR10	Create capacity that will enable UA and partner priorities (WENP prospectus) to be developed into investment ready projects, and source varied and innovative funding options.	

- NR11 Work with West of England Nature Partnership (WENP) and Natural History Consortium (NHC) to raise awareness of and engagement with the natural environment, and encourage conservation volunteering and pro-environmental behaviours (City Nature Challenge, Team Wilder, Festival of Nature)
- Support for West of England Nature Partnership WENP is in place via Mayoral Combined Authority funding 0.5 FTE Project Support Officer. Mayoral Combined Authority staff **successfully** supported several Festival of Nature events; and NHC is delivering Community Engagement piece for development of the Local Nature Recovery Strategy. Conservation volunteering and pro environment behaviours are supported through our funding of Community Pollinator projects and Green Recovery Fund projects, and NHC and WENP board members help to inform priorities. **Ongoing** work includes Round 2 of the Pollinator Fund alone will see roughly 52,000 volunteer hours of community members practically engaged in habitat creation projects.
- NR12 Launch the second round of the Community Pollinator Fund to increase the number and quality of habitats for pollinators and bees across the region
- Successful** launch of Pollinator Fund Round 2 and approx. 43 new Grants approved, including 35 small grants (new category to attract a more diverse range of community organisations), 4 medium grants, and 4 large grants. Round 2 will see creation of approx 329,405 m2 of pollinator habitat, similar to the target set for the whole fund of 312,498. The combination of Round 1 and 2 Projects is 62ha of pollinator habitats - almost double the target set. **Ongoing work** continues to support Round 1 Grant recipients. In June, the West of England and three Unitary Authority CEO's approved an additional £800,000 for use in the Community Pollinator Fund. Whilst much of that funding is set aside to deliver one or two larger pollinator projects in a strategic manner in the region, £270,000 was approved to support additional round 2 projects. This will bring the total projects supported in Round two to 55 Projects, and further increasing both the volunteer hours and land for improved pollinator habitats.
- NR13 Provide evidence to support councils' local plans and planning policy to create new spaces for nature and wildlife and protect existing spaces linking in with regional biodiversity objectives, including those set out in Joint Green Infrastructure Strategy, Tree and Woodland Strategy.
- This work is **ongoing** through regular meetings with councils on Green Infrastructure and LNRS; as well as consulting council planning leads on how the LNRS can act as evidence to inform local planning policy. Local Nature Recovery Strategy will have formal links with Local Plans and will provide evidence to support regional priorities for nature. LNRS Project Manager speaking to Heads of Planning about connections between the two, as well as with other strategies (JGIS, Tree and Woodland Strategy).
- NR14 Promote and embed the West of England Placemaking Charter for creating high quality, biodiverse places that support access to nature and encourage health and wellbeing
- Ongoing** work sees the MCA's Senior Manager for Nature Recovery working with the Mayoral Combined Authority's Place Lead to ensure the forthcoming place strategy will inform and support creation of high quality, biodiverse places that support access to nature and encourage health and wellbeing, including links to Local Nature Recovery Strategy and Pollinator Projects.
- NR15 Ensure that transport and planning projects delivered by the Mayoral Combined Authority positively contribute towards nature's net recovery, including delivering at least 10% Biodiversity Net Gain
- Ongoing** work sees the CA's Nature Recovery Team Senior Manager and GI Junior Project Manager are supporting Transport Senior Manger to engage with partners and CA Infrastructure Team to ensure that process are in place to enable projects to deliver statutory (or above) Biodiversity Net Gain.
- NR16 Together with WENP and the Forest of Avon Trust, renew and continue to accelerate action in delivering the Forest of Avon Plan. Includes investment of £730,000 for the Forest of Avon Trust for woodland creation, including 50,000 broadleaf trees in diverse habitats
- Work is continuing **successfully** to plant or conserve 50,000 trees in the Great Avon Wood, as per the £730,000 Funding provided by Green Recovery Fund to the Forest of Avon Trust. West of England Mayoral Combined Authority staff have volunteered to plant trees at the site.
- NR17 Work with Bristol Avon Catchment Partnership to identify actions and investment required to deliver the Bristol Avon Catchment Plan and the Bristol Avon Fish Recovery Strategy to improve the health, biodiversity and resilience of our water courses, wetlands and river catchments.
- Ongoing** work sees MCA Senior Manger sitting on Bristol Avon Catchment Partnership and is supporting the Water Industry National Environment Programme process in the West of England. Bristol Avon Catchment Partnership Catchment Plan and Fish Strategy both informing the LNRS. BACP also sits on the Mayoral Combined Authority's Green Infrastructure Working Group and we also work with BACP through WENP.
- NR18 Develop and promote the biodiversity footprint concept, to engage and inform businesses about how they can make changes to their supply chain to support nature.
- This approach is being developed and embedded within the wider regional engagement on the Environment. Officers have engage UAs and then our Climate and Nature Action Panel at event on 26 July in **successfully** agreeing broad purpose and objectives. **Ongoing** work is preparing the nature recovery strand of this work, with an outline approach being consulted upon via the Climate and Nature Action Panel on the 21 September.
- NR19
- NR20 Develop an approach to enabling and collecting citizen science data, to engage people with nature and support decision making.
- Successfully** recruited West of England Mayoral Combined Authority Data Manger. Working with this post and other partners, through the LNRS process and Pollinator Fund, to explore options for supporting, collecting and measuring data, including citizen science information. **Ongoing work** with and supporting local organisations engaging with people through citizen science.

- NR21 Hold further Bee Bold Awards and create targeted business campaigns to support businesses create habitats and support pollinators. The 2023 Bee Bold Awards were **successfully** held at Hartcliffe's Heart of BS13 in June 2023. Six pollinator champions were announced under 2 categories. Further targetted business campaigns and support for pollinators are progressing in **Ongoing** work via the Pollinator Fund (see NR12), and via Regional Engagement. Further details on June's Bee Bold Awards day is available here: <https://www.westofengland-ca.gov.uk/news/bee-bold-awards-metro-mayor-crowns-pollinator-champion-competition-winners/>
- NR22 Develop platforms that enable businesses to invest in the natural environment (e.g. Bristol and Avon Catchment Market) We have **successfully** recruited a Climate and Nature Funding & Investment Manager. **Ongoing** work, informed by the LNRS, will see them working with our Nature Recovery team to progress this work.
- NR23 Work with the agricultural community to understand needs and land use options to unlock investment for nature, aiming to create a coalition of agricultural partners igned up to support nature recovery We're working with farmers and landowners through development of the LNRS, which will help chanel investment in nature recovery priority areas; successfully obtained funding for a Strategic Outline Business case to suppot landscape scale nature recovery including opportunities for funding. Ongoing work, certain pollinator projects also engaging with farmers to improve biodiversity, including Middle Ground Growers
- NR24 Using regional skills programmes including Multiply and Workforce for the Future to build skills required for ecology and natural environment sector. This work is **ongoing**. Detail on Multiply and Workforce for the Future updates is found in the Business & Skills section

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BS1	Carry out up to 400 additional free carbon surveys using £416k funding to help small & medium sized enterprises (SMEs) understand their energy use and low carbon solutions; and seek funding to widen the scope and number of businesses eligible for a survey	Carbon Surveys were successfully reopened in February with reviewed and expanded eligibility criteria. Work is ongoing to widen the scope, initially looking at climate resilience and nature recovery.
BS2	Deliver a new £2m Green Business Grant fund to help approx.225 SMEs to make energy saving improvements and install renewable energy, based on findings from a low carbon business evidence base	Green Business Grants Round 4 was successfully launched in June with reviewed and expanded eligibility criteria. Work is ongoing to increase business engagement, particularly in previously unsupported locations and industries. We are rethinking our plans to spend remaining Recovery Fund for strategically important but low-uptake projects such as heat pumps, with the intention of awarding higher grants and a dedicated marketing campaign.
BS3	Increase our understanding of the scale of the challenge and support needed to decarbonise small & medium sized enterprises in the region, through commissioning a low carbon business evidence base and intelligence gathered from the Growth Hub	Evidence base was successfully commissioned in April, with the contract awarded to Future Leap. First part of this work (financial viability of projects) was successfully delivered in May ahead of Green Business Grants launch, with the remaining ongoing and expected to be completed by October.
BS4	Pilot a Rooftop Generation Grant to encourage the use of larger business premises to boost solar PV generation capacity.	Work is ongoing to design and launch Rooftop Solar Grant, with launch still expected in Autumn 2023
BS5	Deliver more carbon & nature literacy support for businesses to improve their understanding of climate and ecological emergencies and actions they can take to help decarbonise and build resilience through website resources and 4 events per year.	Plans are ongoing for webinars in November and January, hosted by the Mayoral Combined Authority. Additional events are also planned with BusinessWest in the Autumn as part of their webinar series
BS6	Develop a focussed net zero Growth Hub route to sit alongside the embedded activities already in place, to advise SME businesses on net zero journeys with a year-on-year increase in the number of businesses supported. .	The Net Zero pillar of support on the Growth Hub website has been successfully launched and work is ongoing to promote and increase SME awareness of the tools and support available
BS7	Investigate the benefits and ways in which the Mayoral Combined Authority could support a regional transition towards circular economy principles.	Work is ongoing to develop a strategy for the inclusion of circular economy principles in our regional strategy and a framework for this which maximises potential benefits of this whilst working with existing priorities and goals.

- BS8 Explore opportunity to recognise businesses' positive actions through green digital badging, aligned to our Good Employment Charter (which has sustainability running through each of its pillars)
- Work is **ongoing**, reviewing implementation of digital badging in relation to green action
- BS9 Develop a peer-to-peer support programme to promote innovation and environmental transition, including becoming nature positive, via mentoring, sharing best-practise and networking events
- Elements of this is being met through the Good Employment Charter, work on which is **ongoing** with a monthly peer-led learning meeting which is having a green takeover in August. Work is also **ongoing** to develop a 'Knowledge Hub' to consolidate and centralise learnings across the CA with potential to foster and showcase collaborative outputs as well as promote / host events.
- BS10 Deliver green careers advice universally to school aged children and young people via the Careers Hub and seek funding to build on the Green Futures Fund pilot.
- The initial pilot phase of the Green Futures Fund, LMI Digital Resources and Teacher Encounters projects have been **successfully** delivered and all milestones achieved. **Ongoing** - the business case to approve the spend of the £300k green recovery funding for further scaling of the Green Futures Fund pilots is being submitted to CLT and then CEO's in September. A grants process will then be launched in October with grants being awarded early 2024. Delivery will take place from February 2024 until July 2026. An additional £20k has also been received to deliver additional teacher encounters from the CEC.
- BS11 Use business engagement to understand what skills / knowledge they need in place to meet the 2030 ambitions to inform our skills provision including Skills Connect, Good Employment Charter and Skills Bootcamps.
- There has been regular communication between sustainability team and Charter team to trade insights around skills needs and work is **ongoing**; sustainability team have spoken at Charter events to employers about green skills and funding/support opportunities. **Ongoing work to map** further support needed to meet emerging green jobs and skills and to support employers to future plan - via Skills Connect, bootcamps etc
- BS12 Use Skills Connect to support individuals to access information, advice and guidance on green jobs through the Retrofit Accelerator Phase IIb, FutureBright, Skills Connect and Green Skills Bootcamps
- LA Skills Connect delivery partners are **successfully** providing information, advice and guidance to individuals including green opportunities. Development of the Skills Connect site is **ongoing** and due to be launched in September 23. Information and advice on green skills and training is reflected throughout the site. New Retrofit and Green Skills Manager **successfully** recruited and started in post (mid-August)

BS13 Deliver Workforce For The Future, aiming to support over 450 SME businesses and 1000 residents access skills and training including green skills

Delivery of Workforce For The Future is **ongoing**, with 759 businesses signed up for support (as of the end of July '23). As of the end of March '23 we have **successfully** delivered skills support to 464 businesses and 1544 'learners/residents' has received training. 141 of these businesses were specifically signed up to receive green skills support, via UWEs Skills for Clean Growth project (84 businesses) and YTKOs Modern Methods of Construction project (57 businesses). Support via the UWE project concluded at the end of June '23, though as the project may continue a list of business' interested in support is to be collated. YTKOs support concluded in August '23. Partners are being asked to produce legacy documents/resources for publication on the WFTF webpage/Growth Hub resources page for businesses to refer to post WFTF.

BS14 Deliver Green Skills Bootcamps for residents as part of our £5.1m Wave 4 programme, focusing on retrofit; green transport; and organisational sustainability

Successfully launched funding opportunity of £770,000 to support Retrofit, Organisational Sustainability and Green Transport Skills Bootcamps within 2023/24 financial year. **Ongoing** work to support the take-up of the funding opportunity as only £79,000 was allocated in Call 1. There has been a **re-think** and the project team has re-planned and launched a second call which ran from 10th July-7th August. This included targeted marketing to increase interest for Call 2, applications are going through a panel assessment currently but applications have increased.

BS15 Publish and use the findings from the South West Skills Study from the South West Net Zero Hub to build on the West of England Green Skills Analysis Report to inform our provision of retrofit and green skills

Successfully published the SWNZH Retrofit Skills report in May 2023 alongside 3 additional LEP reports for HoSW, Solent & Gfirst. **Ongoing** - Indication of additional funding from DESNEZ by 4th quarter 2023 to assist in delivery of outcomes. New PM for HoSW will lead on these works

- BS16 Support 350+ domestic retrofit small and micro businesses through the Retrofit Accelerator Phase IIa, to raise awareness, train and increase accreditation
- Following the return of one Expression of Interest from Retrofit West CIC and stakeholder consultation at the Retrofit West launch in July, the Business Support Delivery Provider grant call was **successfully** launched 27th July. To allow for multiple providers to respond to the grant call it will be open from 21st August until 15th December and evaluated as applications are received. We anticipate this will facilitate the first business offer from November 2023. New Retrofit and Green Skills Manager successfully recruited and started in post (mid-August) - key focus will be to drive up green skills/retrofit training for SMEs
- BS17 Leverage national funding for large scale initiatives (such as demonstrators, networks, living labs) and support manufacturing and engineering industries to innovate new sustainable technologies and supply chains
- A funding application has been submitted to produce a Local Industrial Decarbonisation Plan (LIDP) for the region, focussing on the industrial cluster around Avonmouth/Sevenside/Portbury, led by the Mayoral Combined Authority in partnership with 10 external organisations. If funding is awarded work will be **ongoing** throughout calendar year 2024 to develop the plan, leading to an implementation period following this; if not awarded then further sources of funds will be sought.
- The Plan for Innovation is in progress, which will set out the innovation challenges for the region, alongside an action plan for delivering against the challenges using devolved and reserved funding.
- BS18 Support SMEs to innovate new sustainable technologies through delivery of the Business Innovation Fund and Digital Engineering, Technology and Innovation (DETI), and Made Smarter programmes
- Successfully** delivered the Digital Engineering, Technology and Innovation Programme, which included the development of a proof of concept for an engineering industry eco-meter that shows the environmental impact of parts and processes. The Made Smarter programme is **ongoing** and will be starting a new cohort of management training in September 2023.
- BS19 Develop innovative green financial and delivery models, including those unlocking investment in nature-based solutions and supporting organisations in the West of England FinTech Strategy
- Green finance investment work is **ongoing**, and the combined authority is commissioning a research project on increasing the capacity and diversity of angel investors to support impact investment into green finance businesses. This activity is due to take place later in this financial year.

- BS20 Revise our regional procurement strategy to include environmental weighting alongside social value in procuring sourced goods and services. Work is **ongoing** to develop a Social Value Strategy for the Mayoral Combined Authority. The social value strategy will influence not just our corporate approach to social value and procurement, but also the social value we create as an employer and as a regional anchor institute. A key theme of the social value strategy will be tackling the climate and ecological emergency. Ongoing work will embed environmental asks into upcoming procurements, with internal Officers group meeting in September to progress strategy development.
- BS21 Use Invest Bristol & Bath to create a campaign to attract new green businesses to the region, targeting a third of new businesses attracted to the region via Invest Bristol & Bath to be focused on green jobs The Clean Tech and Energy pages on the website have been **successfully** launched. Work on the green campaigns is **ongoing** - Nuclear SW and Smart Sustainable Aviation (inc. Hydrogen) propositions in place and on track to be delivered by Q4. Tidal investment campaign on pause until further research from strategy/environment team is progressed. Initial scoping for new investment campaign to target EV battery and Heat Networks supply chain opportunities underway. Work in progress on Green Tech to refresh Fintech campaign to focus more on Sustainable Green Finance.

ID	ACTION	UPDATE FOR OCT 2023
NZE1	Deliver £1.5m funding for Sustainable Innovative Finance Foundations for Wind Turbines (SIFFFT) to bring 10 sites to landowner agreement and 3 sites securing planning through a community led model across the region, providing a pipeline of up to 70MW of investable onshore wind projects with shared learning for other communities.	The SIFFFT Grant offer letter is signed and ongoing work is being progressed via the SIFFFT team with each local authority to identify potential sites. This includes reviewing existing Renewable Energy Resource Assessment (RERAS) data.
NZE2	Rollout rooftop solar, including £569k for Bristol Energy Co-Op to install over 2MW PV targeting rooftops of SMEs, schools and community buildings; piloting a Rooftop Generation Grant scheme encourage the use of larger SME business premises to boost solar PV generation capacity; and launching a second round of solar bulk-purchasing solar PV scheme open to residents and businesses	The first round of Solar Together West of England bulk-purchase scheme for domestic rooftop solar and optional battery delivered 950 installations. A second round has been successfully launched, open to resident registrations from late August. Customers have the option to add a battery and ev charge point. The scheme is ongoing until installations complete, due by end of summer 2024. Bristol Energy Co-op have successfully engaged with 28 potential sites for Community-owned solar, 16 of those are being surveyed, 2 sites have successfully completed this process and have installations booked in. Work is ongoing to design and launch Rooftop Solar Grant for SMEs, with launch expected in Autumn 2023.
NZE3	Seek sustainable funding for free local energy advice provision for residents seeking help in coping with their energy bills	The South West Net Zero Hub, which we host, has successfully secured £5.4m of funding to provide local energy advice. Through this, three West of England not-for-profit organisations - Severn Wye Energy Agency, Centre for Sustainable Energy and Bath & West Community Energy - are being funded to advise residents struggling to heat their homes through provision of in-person advice. Details here: https://www.swnetzerohub.org.uk/4-2m-government-funding-for-innovative-home-energy-advice-in-the-south-west/ Ongoing work will see paper taken to CEOs to delegate approval for c£200k of GRF to extend Local Energy Advice in the West of England; both regional NHS bodies have been approached and shaped the approach to this local energy advice extension, in effort to demonstrate value and savings for NHS services for their potential contribution; and Resource West partners (Bristol Water, National Grid, Wales & West and UWE), who piloted a local energy advice organisation, are being engaged to see if their pilot could be extended alongside this, potentially via an OfWat Innovation funding bid.
NZE4	Fund the Local Energy Scheme round 2 capital projects and launch a third round for development and capital funding of over £600k to support community led projects, including 'smart' energy systems.	A 150m wind turbine was successfully opened in June, funded through European Regional Development Fund money from the West of England Mayoral Combined Authority. This adds 4.2MW additional renewable energy capacity to the grid. Two projects were successfully awarded grant through the Local Energy Scheme 2. Fairy Hill, a Bath & West Community Energy ground-mounted solar array (£250k) and Cleveland Pools, a heritage site swimming pool installing innovative water source heat pump and river pontoon infrastructure (£77K). Ongoing work on site is underway at Cleveland Pools. Fairy Hill project development works ongoing following a rethink necessitated by grid constraints.

- NZE5 Support public sector partners across the region developing major capital projects through the South West Net Zero Hub provision of free local technical assistance
- In the West of England, Hub finance modelling enabled SGC decision to loan £2M, **successfully** delivered 3MW solar array and battery at The Wave in South Gloucestershire; and similar in B&NES on rooftop solar at 3 x care homes (93kWp total) and the recycling centre (133kWp). **Ongoing** Hub support in the West of England has **successfully** completed a feasibility study into Bristol University 700kWp solar array, developing business case to install min 2,600kWp rooftop solar across South Gloucestershire Council estate with grid connection requests submitted; investigating the potential for rooftop solar on N Somerset leisure centre + other buildings; and development of an EV cable channel trial in B&NES to enable affordable and accessible charging solutions for residents.
- Elsewhere the Hub have supported Cornwall Council successfully install roof top 150kW and 230kW carpark canopy solar installation, with construction of 400kW Castle-an-Dinas Quarry construction due Winter 2023 and a further 1.8MW of solar due for planning submission. The Hub also **successfully** delivered vPPA supporting development of PEC 13MW solar farm - £17 million additional funding from PCC
- NZE6 Work with National Grid Electricity Distribution and partners to bring forwards renewable generation approved but not yet operational renewable electricity generation
- The CA has **successfully** responded to two key consultations – Ofgem’s Future of Local Energy Institutions and Governance, and Gov’s Strategy and Policy Statement for energy policy in Great Britain. Through responding to the former, in consultation with UAs and M10, work is ongoing through two Ofgem working groups. We are engaged both National Grid Transmission and Distribution, and **ongoing** work continues to understand how we effectively progress renewables despite grid capacity challenges for larger >1MW generation projects
- NZE7 Explore the opportunity for capturing heat from mines, working with the UK Coal Authority to expand investigations in South Gloucestershire and Bristol’s eastern fringe across the region’s former coal workings across Bristol, Bath and North East Somerset
- Work is **ongoing**. The SW Hub is supporting the early-stage feasibility of South Glos heat from mines project to enter procurement in September 2023, looking at above ground opportunities to distribute heat from potential sources identified already.
- The CA have engaged all UAs and Bristol City Leap (Vattenfall) on process of developing FBC for mine water heat, using c£1.6m earmarked at March ‘23 Committee. Coal Authority engaged and quote obtained early August for high-level mapping, to inform more detailed investigations. South Glos Council continuing to work with their property teams, on identifying locations for more detailed investigations in their area. Project Officer to progress this work has been approved, and is out for recruitment. Next steps are to develop approach with UAs for CEOs to approve, then procure investigations needed in developing the business case.
- NZE8 Explore innovative water sources of heating and cooling including from our harbours, rivers and sea
- Work is **ongoing**. In process of joining the Celtic Sea Cluster (CSC) Strategic Board regarding the development underway of the brand new industry of floating offshore wind (FLOW). Meeting between CEOs of CSC and Mayoral Combined Authority scheduled for Q2. Current focus of developing innovative sources of heat and cooling has been via heat from mines work (see separate action update on this).

- NZE9 Input into Severn Estuary tidal energy commission via Western Gateway
 Input is **ongoing**. In addition to inputting into Tidal Energy Commission via Western Gateway, the CA are in the process of joining the Celtic Sea Cluster (CSC) Strategic Board regarding the development of the brand new industry of floating offshore wind (FLOW). Meeting between CEOs of CSC and Mayoral Combined Authority scheduled for Q2.
- NZE10 Increasing energy innovation funding coming to the region, working with partners such as our region's universities, R&D companies, Innovate UK and Energy Systems Catapult and National Grid (formerly Western Power Distribution)
 We have **successfully** completed the PIONEER project funded via Ofgem's Strategic Innovation Fund with National Grid and Carbon Trust, providing learnings for the marginal cost savings on grid reinforcement that insulation can provide; joined a successful consortium in securing funding for hydrogen research (see LCT21); and successfully submitted a bid to Innovate UK to develop a Local Industrial Decarbonisation Plan (see B&S17). Work is **ongoing** with our Innovation team to develop and secure further innovation funding for the region including growing our relationship with NCC (Advanced Manufacturing Catapult) to develop ways to work more closely together.
- NZE11 Work with National Grid and our local councils to develop proposals to trial new flexible and other innovative solutions as lower cost alternatives for grid reinforcement and to deliver additional renewable energy generation
 As reported above, we have **successfully** completed the PIONEER project. **Ongoing** work with National Grid and Ofgem working groups are exploring alternative innovative solutions, including via SIF; and with energy providers capable of virtual solutions, connecting demand to generation.
- NZE12 Investigate and support deployment of viable conjoined renewable electricity 'private wire' and virtual 'synthetic' networks connected to local communities
- NZE13 Review and collect evidence to develop regional heat and electricity decarbonisation pathway scenarios to net zero and the role different interventions will play (e.g. energy storage, renewable electricity, heat pumps and renewably fuelled heat networks)
 The Mayoral Combined Authority has **successfully** joined fellow Local Authorities in supporting Bristol's Mission Net Zero bid to InnovateUK's Decarbonisation Pathways Phase 2. If successful, this would resource **ongoing** work in developing a West of England Climate Investment Plan - based on LAEP methodology, to develop robust regional and local investment propositions and business cases, which we shall use to attract further public and private investment into net zero, turning plans into action. Other **Ongoing** work in this area also includes: joining SW and M10 working groups on LAEPs, reviewing and making the case for Ofgem's Regional System Planners to be based and resourced in the West of England, engaging ESC and CSE who devised the LAEP methodology on how best to proceed, and engaging both gas (Wales & West) and electricity (National Grid) distribution network operators in their work on LAEPs.
- NZE14 Developing a coordinated approach with National Grid and local councils to locate new homes, buildings and infrastructure linked with renewable energy generation and storage to overcome grid constraints
 The CA has **successfully** responded to two key consultations – Ofgem's Future of Local Energy Institutions and Governance, and Gov's Strategy and Policy Statement for energy policy in Great Britain. Through responding to the former, in consultation with UAs and M10, we now sit on two Ofgem working groups. This work is **ongoing**. We have engaged both National Grid Transmission and Distribution, and continue to engage with them on how we can progress renewables despite grid capacity challenges for larger >1MW generation projects

NZE15 Engage communities and energy groups on the roles they can play in delivering smart energy solutions and provide information to them on our green careers and opportunities programmes

We **successfully** consulted with energy groups on the development of the Local Energy Scheme 3. Work is **ongoing** to develop energy group forum to support networking, learning and opportunity sharing. Engaged with with other stakeholders including Councils, Retrofit West CIC and City Leap Community Energy Team.

ID ACTION**UPDATE FOR OCT 2023**

CR1	Work with Met Office to develop a regional 'Climate Pack' – identifying the anticipated future climate change for the region	The Met Office has successfully produced a regional climate pack for the CA. Work is ongoing to review this material and tailor it for different audiences in the region - focused on strategic partners, residents & business/organisations.
CR2	Convene regional conversations and collect evidence to understand the impacts of climate change and adaptations needed, particularly focused on those communities most vulnerable and least able to adapt.	Climate resilience engagement with residents is ongoing and will use the regional engagement programme as our main outreach channel. High-level messaging led by the CA will include hearing from people about their lived experience, the needs of their communities and their resilience in the face of the climate and ecological emergencies. Work is ongoing to develop these messages with the Mayor and through the Climate & Nature Panel, where engagement activities will be used to collect this evidence.
CR3	Develop a regionwide heat vulnerability assessment to identify areas of high risk of overheating during heatwaves – expanding on Bristol's heat vulnerability mapping to inform management of housing, parks and green spaces parks, tree planting and management	Work is ongoing to review the adequacy of our regional evidence base on climate risks and vulnerabilities with key stakeholders. Building this big picture, will help define stakeholder needs, establish any key gaps which need addressing, and shape the development of this regional assessment.
CR4	Establish a regional steering group overseeing development of an Adaptation Plan distilling West of England priorities for early action from NAP3	The CA has successfully recruited a Climate Resilience Manager to lead the CESAP climate resilience theme. Work is ongoing to co-develop a detailed work programme and regional approach to delivering a climate ready region. They have successfully started to engage key regional stakeholders including the UAs, Environment Agency, Avon & Somerset Local Resilience Forum & Bristol Water - starting conversations about regional priorities, CA support, major resilience building projects e.g. Bristol Avon Flood Strategy, enabling conditions for change and reviewing CESAP actions. Work is ongoing to review governance structures to shape oversight and peer review of the climate resilience work programme. The CA has signed-up to a DEFRA pilot which will report the region's progress on adapting to climate change through engagement with the UAs and other partners.
CR5	Work with the local councils and Local Resilience Forum run by Avon & Somerset Police to strengthen regional public service resilience to climate change	
CR6	Support regional climate change risk assessments across the region's sectors to increase climate consideration & help standardise approach	
CR7	Work with National Grid, Wessex Water, Bristol Water and other local infrastructure providers to understand regional infrastructure resilience to the impacts of climate change.	
CR8	Coordinate regional review and application of West of England Sustainable Urban Drainage guidance for new buildings and infrastructure with unitary authorities	
CR9	Support the Bristol Avon Flood Strategy feasibility work completed in last two years, commencing delivery of Phase 1 of flood defences, and coordinating a regional approach to flood defences and mitigations	
CR10	Assess and ensure Mayoral Combined Authority capital investments consider the impacts of and are integrating resilience to climate change impacts	The CA has successfully recruited a Senior Manager for transport in the Environment Team. Their ongoing work with colleagues aims to develop the CAs approach to the environment including considering climate risks and build-in climate resilience, working closely with the Climate Resilience Manager.
CR11	Identify and embed opportunities within advice to businesses (in particular, low carbon surveys and grants provision) to support them to build resilience to climate impacts	Work is ongoing to widen the scope of business support, initially looking at climate resilience and nature recovery, starting with overheating risk and cooling demand.
CR12	Ensure the Retrofit Accelerator and other retrofit projects consider and improve buildings' climate resilience	Work is ongoing to review how retrofit projects can support climate resilience, starting with overheating risks and possibly widening scope to cover other risks.
CR13	Deliver green and blue infrastructure and nature projects (in Nature Recovery section) to help address impacts of climate change	Work is ongoing to ensure that the Local Nature Recovery Strategy: 1) helps the region address climate risks e.g. flood risk & urban cooling, and 2) considers how climate change impacts affect wildlife resilience.
CR14	Working with WENP and other partners to develop an approach to assessing local-level biodiversity loss and the measures required to enable local threatened species to adapt.	This action will be progressed through ongoing work relating to the Nature Recovery CESAP actions. The CA is working with WENP and other partners to deliver organisational and regional goals - protecting and reinforcing the region's natural environment and exploring innovative ways of monitoring ecosystem health.
CR15	Build evidence on land used for food production in our region and how this could be impacted by climate change to develop a regional food production strategy	We are rethinking this action, considering the CA's role regarding food & farming issues, through engagement with key stakeholders on the Climate & Nature Panel.