

Year One Climate Action Plan 2021/22



**LIVERPOOL
CITY REGION**
COMBINED AUTHORITY

METROMAYOR
LIVERPOOL CITY REGION

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Liverpool City Region Combined Authority would like to thank all the members of the Climate Partnership for their support and commitment in developing our response to the Climate Emergency.



Foreword



The challenges that have faced the Liverpool City Region over the last year have prompted reflections on the future of our region. The COVID pandemic has highlighted inequalities both economic and social, showing the ongoing need to level up our communities. It has shown how, in the face of an imminent crisis, we have the ability and the determination to work together to reach demanding goals. Our communities have also shown that they have the compassion and the willingness to work together to help each other through difficult times. We have also realised the value of what we have in our City Region – the parks, rivers, canals and coast, the open spaces and green and blue places have been a source of comfort and liberty for many of us.

The Climate Partnership recognises that climate change is the biggest challenge we face not just as a city region but as a society. The hugely successful Year of the Environment 2019 programme showed the appetite of our community to take action – with more than 580 events and activities engaging thousands of people. At the Year of the Environment Summit in November 2019, Metro Mayor Steve Rotheram announced the creation of a Climate Partnership to shape and direct Liverpool City Region Combined Authority work in taking forward this agenda.

The Climate Partnership's role is to support the creation of a Climate Action Plan, helping to mitigate the Climate and Ecological Emergency and reach net zero carbon by 2040. In order to catalyse rapid action, the Climate Partnership has overseen the preparation of this Year One Climate Action Plan. We have seen that to successfully address a crisis, we must take rapid and concerted action. This plan is just the start of a journey that will shape the future of the Liverpool City Region and enable all our communities to Grow Forward Greener.

Gideon Ben-Tovim OBE
Chair: Climate Partnership
Chair: Nature Connected

Councillor Gill Wood
Vice-Chair: Climate Partnership
LCR Deputy Portfolio holder: Low Carbon and Renewable Energy

Our vision is for a globally competitive, environmentally responsible and socially inclusive economy. As we emerge from the COVID pandemic, there can be no return to business as usual or the old way of doing things.

Often the people who are most vulnerable to the impacts of climate and ecological breakdown are those who have contributed least to the human causes of the emergency. We need to put fairness, equality and inclusion at the heart of the Liverpool City Region's response to climate change.

We have already started delivering innovative, low carbon projects that will enable our sustainable future, including: hydrogen and electrically fuelled public transport options, renewable energy projects such as Mersey Tidal power - and housing energy efficiency improvements across the city region.

These projects show our commitment to addressing the climate and ecological emergency, but they are only the start and there is much more work to do. The Liverpool City Region Combined Authority and the Climate Partnership have committed to taking a strategic leadership role. We will convene, co-ordinate and support actions being taken by all our partners and citizens, across all 6 Local Authority areas that make up our City Region. We know that we can achieve greater, faster progress and a fair transition by working in collaboration. We hope that you will join us in committing to action to achieve a greener future together.

Steve Rotheram
Liverpool City Region Metro Mayor

Councillor Rob Polhill
LCR Portfolio holder: Low Carbon and Renewable Energy



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Introduction and Background

The purpose of the Year One Climate Action Plan is to create a clear framework that will set the foundation for actions to achieve the City Region climate and sustainability goals.

A Climate Emergency was declared by the Liverpool City Region (LCR) Combined Authority (CA) in June 2019, pledging the LCR to become net zero carbon by 2040. In July 2019 the Government committed to achieve this target across the UK by 2050. The scale and pace of action required to achieve these ambitious targets is not underestimated, however the recent COVID pandemic has shown how effective rapid and concerted action can be. It was determined by the CA that a Climate Action Plan should be proposed that would set out a strategy for the LCR to achieve net zero carbon by 2040.

In 2020 a LCR Climate Partnership was established and is determined to catalyse rapid actions to make significant progress against the 2040 target. There is a need to balance the urgency of action against the desire to enable all members of the community to participate in development of the 2040 plan.

It is recognised that many of the actions that must be taken to avoid the climate emergency are for individual people making choices in their life and work. Nevertheless, these choices will be helped and enabled by strategic intervention at the City Region scale, particularly in terms of infrastructure such as transport, waste, land use, energy and heat.

Since declaring a Climate Emergency in 2019, the Combined Authority, Merseytravel as the CA's transport delivery arm, and its partners have made great strides towards achieving our net zero carbon goal. A number of pivotal policies and strategies have been published, following the lead of the LCR Local Industrial Strategy which sets out a vision for the LCR as a globally competitive, environmentally responsible and socially inclusive city region. The recent Housing Statement, Housing Investment Strategy, and air quality action plan all follow this ambitious vision.

Further actions have included:

- introducing new electric buses to improve air quality and reduce carbon;
- investing £1.26m in low carbon solutions in LCR colleges and the City of Liverpool, saving over 300tCO₂ through the Local Growth Fund ending in March 2021;
- investing in the Transforming Cities programme and other priorities such as the Sustainable Transport Enhancement Package (STEP) and City Centre Connectivity initiative that promote public transport and active travel.

Further initiatives are now starting to roll out, including improvements to cycling and walking infrastructure, new more efficient electric trains, hydrogen buses, progress on the Mersey Tidal project, funding 58 environmental projects in the LCR through the CA's £500k Community Environment Fund, and funding 10 environmental projects through the CA's Future Innovation Fund.

The Year One Climate Action Plan will make sure that opportunities for early intervention are not missed, enabling early achievements in the City Region to be captured without detracting from the important goals that must form part of the longer-term net zero carbon 2040 action plan.

Background information:

- [LOCAL INDUSTRIAL STRATEGY: vision for transforming together, 2020 | Liverpool City Region Combined Authority \(liverpoolcityregion-ca.gov.uk\)](https://www.liverpoolcityregion-ca.gov.uk)
- [Local Authorities and the Sixth Carbon Budget - Climate Change Committee \(theccc.org.uk\)](https://theccc.org.uk)
- [Towards a Green Future for Liverpool City Region - Heseltine Institute for Public Policy, Practice and Place - University of Liverpool \(liverpool.ac.uk\)](https://liverpool.ac.uk)
- [Friends of the Earth: Climate Action Plan for Liverpool City Region, 2019 \(takeclimateaction.uk\)](https://takeclimateaction.uk)

Climate Action Plan Principles

The Climate Partnership has proposed a set of guiding principles that will apply to both the Year One and longer-term Climate Action Plans, recognising that the people who are most vulnerable to the impacts of climate and ecological breakdown are often those who are least likely to have contributed to the human causes of the emergency. These principles ensure that the climate action plan will be driven by climate justice at a local, national and global scale, putting fairness, equality and inclusion at the heart of the City Region's response.



Climate Partnership Guiding Principles

- **Recognise the urgency** of the climate and ecological emergency and the need for rapid transformative action.
- **Set out the scale of the challenge** – where do we need to be on the net zero pathway by 2030? What must our priorities be to get to that point? How will we measure our progress?
- **Set out regular and clear ‘check-in’ points**, so that everyone can understand what progress we are making as a City Region.
- **Adopt a robust, evidence-led approach**, building on the strengths of the City Region’s academic community to set challenging but achievable goals.
- **Build in flexibility** – so that we can include innovative new technologies, the latest scientific thinking and respond to new opportunities as they arise.
- **Plan for the change to climate and weather patterns** that is already inevitable – protecting our most vulnerable residents and businesses from harmful impacts.
- **Address issues of inequality and fairness**, so that everyone in Liverpool City Region benefits from the cleaner, greener future that we are building.
- **Include actions in multiple spheres of influence**, ranging from actions that we can take ourselves, to the influence we can have on decisions taken by others.
- **Be transparent and understandable** – setting out the basis behind each action point, why it is important and what will be crucial to successful achievement.

- **Reflect the interconnected nature of climate actions** – aiming to promote understanding of the complex interconnections that exist between different priorities and seeking to achieve a sustainable way forward.
- **Be collaborative in nature**, allowing all parts of the community to have an input into the development process and fostering a sense of ownership in the plan.
- **Contribute to an environmentally beneficial post-COVID recovery across the Liverpool City Region.**
- **Seek alignment with the Climate Emergency plans of the 6 Local Authorities within the Liverpool City Region**, whilst respecting their unique characteristics and priorities.
- **Ensure integration with various Combined Authority strategies policies and groups**, for example; Industrial Strategy, Air Quality Commission, Transport, Waste, Housing and Energy Strategies, Spatial Development Strategy, Fairness and Social Justice Advisory Board.

2040 Climate Action Plan Guiding Principles

The CA will:

- achieve shared prosperity whilst reducing consumption of energy and resources.
- ensure the resilience of places and citizens to climate change.
- use our geographic location and our industrial and maritime legacies to create a new future.
- change our economy without leaving anyone behind.
- lead and be brave to be at the forefront of change.



Themes for Action

Nine themes to structure the action plans have been adopted, encompassing the breadth of environmental concerns across the City Region. The themes are aligned to the United Nations Sustainable Development Goals to enable reporting against this internationally recognised framework.

Whilst the LCR commitment is to achieve net zero carbon by 2040, the climate and ecological emergency demands more than just carbon reduction. In reducing our dependence on fossil fuels we must also seek to address wider environmental and societal impacts to achieve the best possible future for LCR residents.

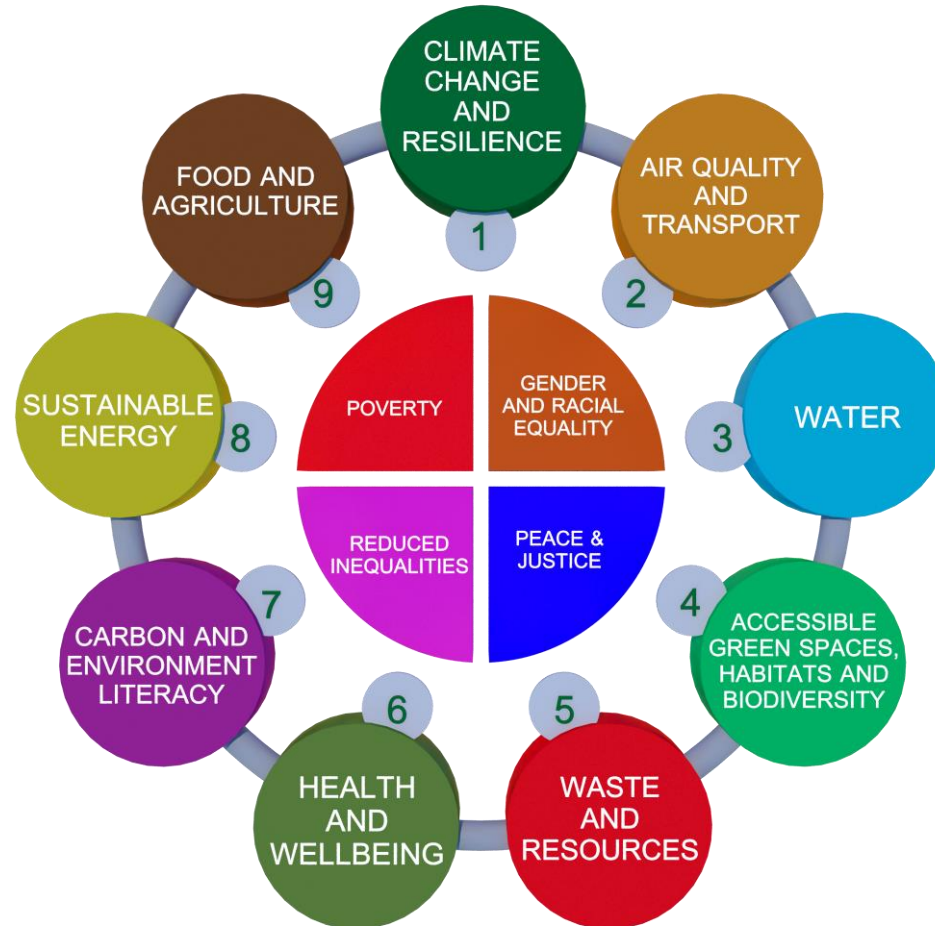
The nine themes used to structure the action plan responds to local priorities and goals and enables clustering of LCR activities whilst fitting within the robust SDG framework.



Overarching Actions

The nine themes provide a basis for collaborative discussion. Whilst they provide a useful framework to articulate action this doesn't mean that all actions need to fit neatly within these themes. Our aim is to create a 'climate in all policies' approach and therefore a number of actions will cut across all themes and areas of the Combined Authority's work.

The framework also includes a vital central section which encompasses themes of poverty, gender and racial equality, reduced inequalities, and peace and justice. The inclusion of these themes at the centre of the framework is intentional, to demonstrate the need for all policies, strategies and actions to address them as a matter of course.



Climate Action Themes

Climate Change and Resilience – Combating the effects of climate and weather changes that are already built in and will impact our region

Air Quality and Transport – Achieve zero carbon mobility with an emphasis on active travel and low polluting modes

Water – Managing our water resources and water infrastructure

Accessible Green Spaces, Habitats and Biodiversity – Improve LCR's green and blue spaces to be thriving biodiverse areas and increase accessibility to existing and new spaces

Waste and Resources – Reduce the impact that resource consumption and end-of-life disposal has both within the City Region and globally, including purchasing choices

Health and Wellbeing – Make sure that actions to improve climate are aligned with actions needed to improve the collective health and wellbeing of our residents

Carbon and Environmental Literacy – Providing information, training and support to those who want to develop their knowledge to take action

Sustainable Energy – Implement zero carbon energy generation and supply as well as reducing the demand for energy in homes, commercial buildings and industry

Food and Agriculture – Take action to support low impact agricultural and food production in the LCR including local food growing initiatives

UK Climate Assembly



Following the ground-breaking declaration of a climate emergency by the UK Government in 2019, it was recognised that any combination of policy actions to achieve net zero carbon was going to impact on every person in the UK. It was imperative that people in the UK had their say on the best policy actions to take. Six parliamentary select committees worked together to set up a truly democratic UK citizens' assembly on climate change. The UK Climate Assembly included representatives from all walks of life and a wide range of opinions, ages and ethnicities to ensure that all voices were represented fairly.

The recommendations made by the Climate Assembly are not binding on government and they do not provide answers to all of the questions we might have. Nevertheless this is an incredibly valuable, opinion-based consensus that provides us with robust and considered opportunities for change.

Recommendations made by the Climate Assembly have been taken into account in this action plan and will be used to structure a conversation with LCR citizens as the 2040 action plan is formed. For those who wish to discover more about the Assembly and read the outcomes and recommendations in full, see the Climate Assembly website: [Climate Assembly UK \(climateassembly.uk\)](https://climateassembly.uk)

UK Climate Assembly Recommendations

- Informing and educating everyone (including the public, industry, individuals and government) was the highest rated principle agreed by the Climate Assembly. This reflects their views that it is imperative for everyone to understand the need and justification for action, which will help them make changes in their own lives.
- Ban on sale of new fossil fuel cars.
- Reduction in the amount we use cars.
- Improved public transport.
- Government should tackle water waste and prioritise water conservation.
- Information and skills training for people who manage the land to encourage biodiverse and low carbon practices.
- Restoring natural environments.
- Increasing forest cover and better forest management.
- Restoring and managing peatlands and wetlands.
- Enhancing the storage of carbon in the soil.
- Taxes and incentives for reducing food waste (in land use restoring natural environments).
- Recommendations were particularly made for the need for knowledge about personal choices people can make on food, purchasing and waste reduction.
- Providing support to farmers including information and education to achieve a 'managed diversity' of land use that better absorbs and stores carbon.
- Encourage sustainable local food production and raise awareness of the impact of purchase choices.
- Planning policy changes to allow space for nature and local low carbon food production.
- Strong recommendations for local authorities to be involved in setting strategies for zero carbon buildings that are appropriate their local area.



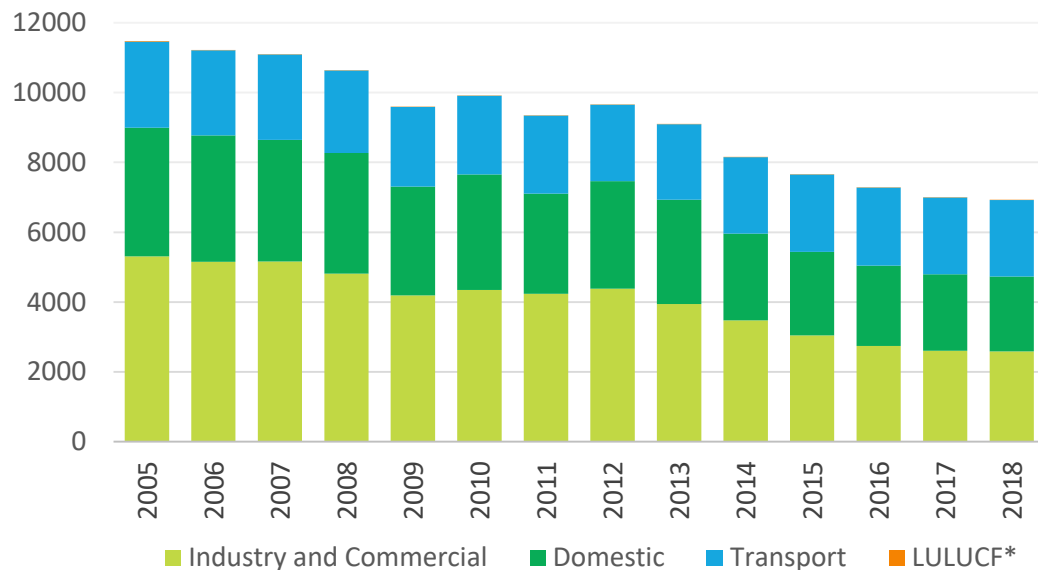
Liverpool City Region - Where are we now?



It is important to understand the Liverpool City Region's current situation to be able to understand the issues and where we need to focus interventions. These indicators will be monitored in future years to evaluate our collective action. All data is the latest available at the time of writing unless stated otherwise.

In 2018, LCR produced almost 7,000 kilotonnes (kt) CO₂; a reduction of approximately 4,500kt CO₂ (40%) since 2005. The sectoral split shows that carbon emissions have fallen in the industrial and commercial and domestic sectors, but have remained static in the transport sector.

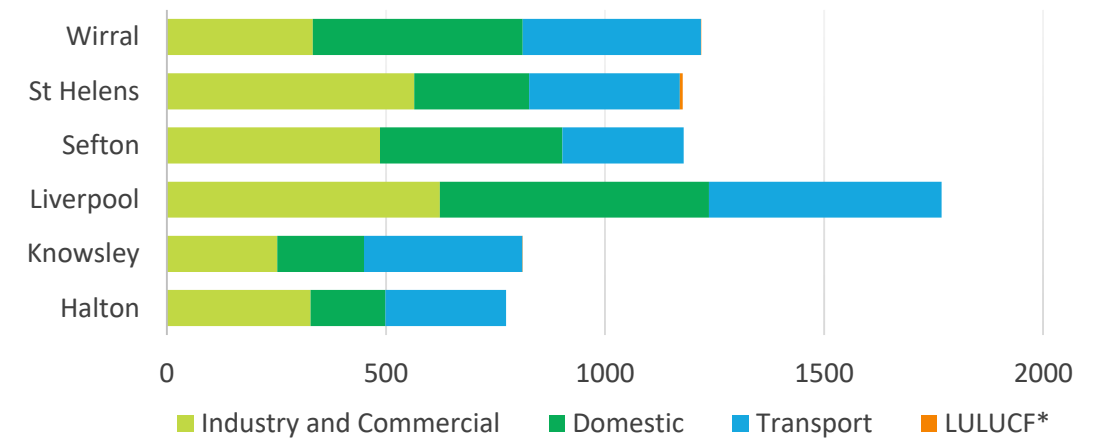
Emissions in the LCR by Sector 2005 to 2018 (kt CO₂)



*Net emissions for Land Use, Land Use Change and Forestry

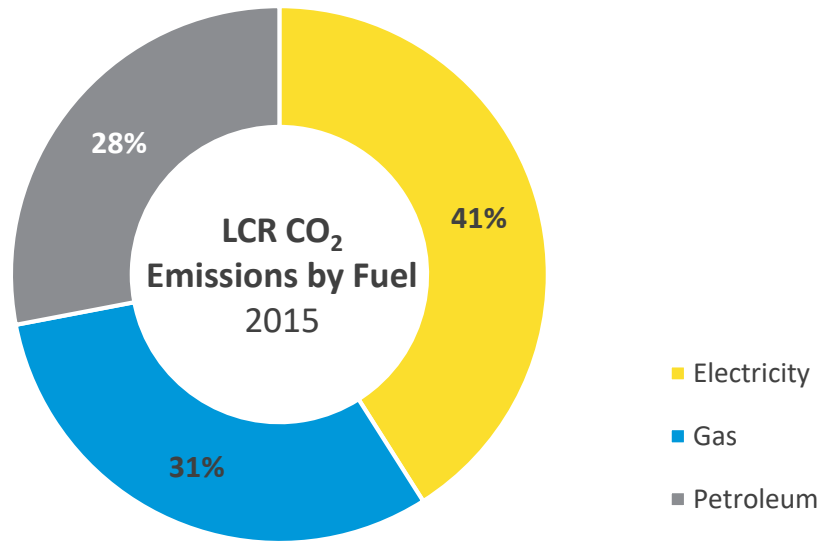
Per capita emissions average 4.5 tonnes per annum across the LCR area; lower than the England or North West average, although there is considerable variation between local authority areas. The reason for this can be seen in the sectoral split for each local authority, with industrial and commercial emissions higher in Liverpool, Sefton and St Helens.

Emissions in each LCR District and Sector in 2018 (kt CO₂)

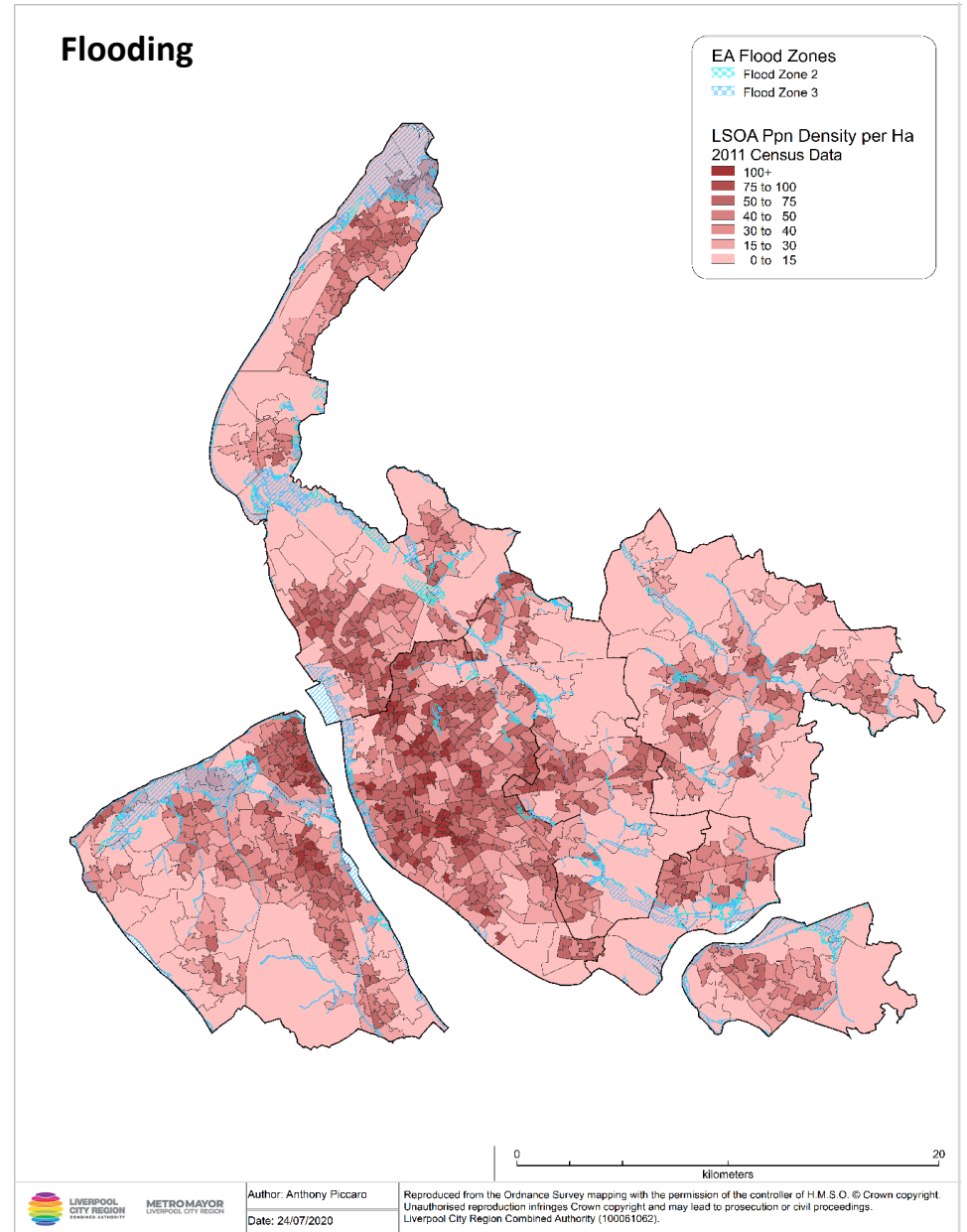


There are various pathways that the LCR could take to reach the net zero carbon target, depending on the technologies available and the preferred local route to decarbonisation. The preferred pathway will also depend on actions and policy interventions that national government enact. Setting interim targets in line with the LCR carbon budget will be helpful in planning a carbon reduction trajectory and to ensure that progress can be monitored over time. To achieve the carbon budget that would align LCR with the Paris Agreement "well below 2°C and pursuing 1.5°C" global temperature: [Tyndall Centre Setting Climate Commitments for Liverpool City Region, Local and Regional Implications of the United Nations Paris Agreement on Climate Change \(manchester.ac.uk\)](https://www.manchester.ac.uk/research/tyndall-centre/setting-climate-commitments-for-liverpool-city-region-local-and-regional-implications-of-the-united-nations-paris-agreement-on-climate-change/)

Energy

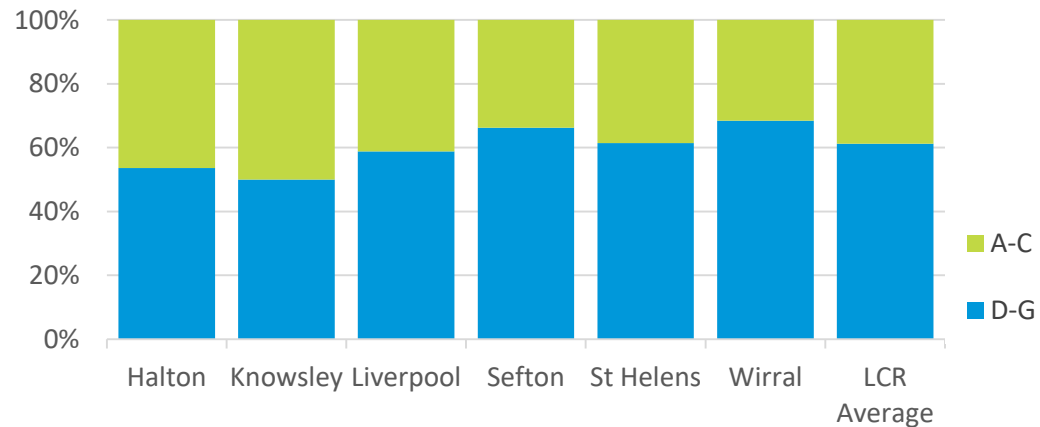


Flooding



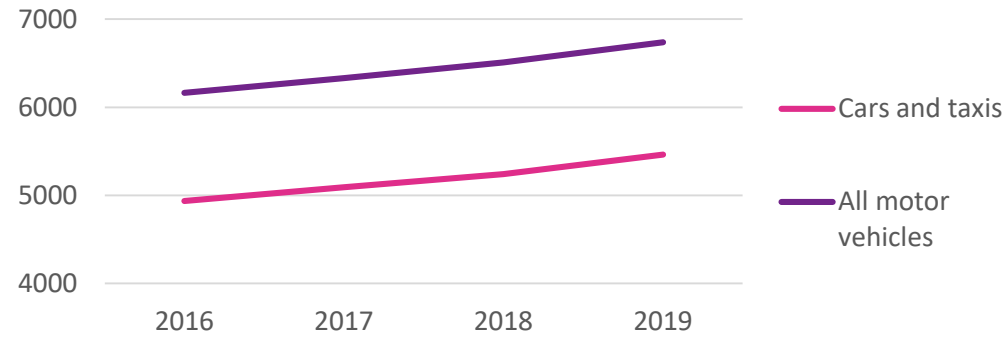
Housing

Energy Performance Certificate Ratings in each LCR District 2019
(% of Properties)

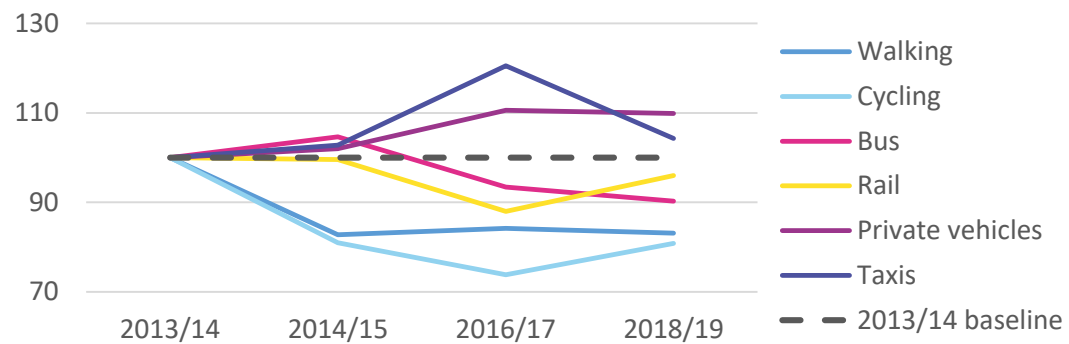


Transport

Vehicle Miles in the LCR (million)

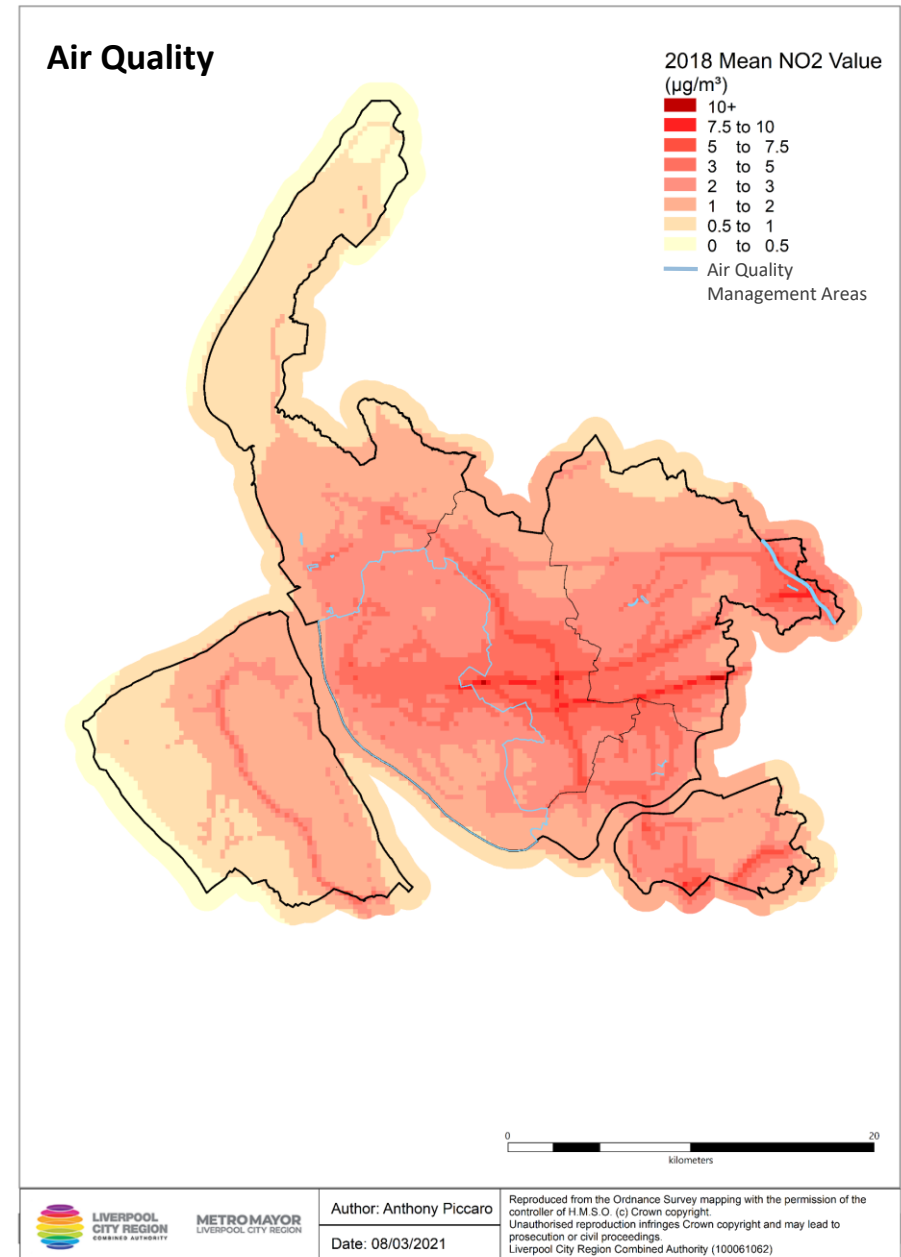


Modal Share (indexed to baseline year 2013/14 = 100)

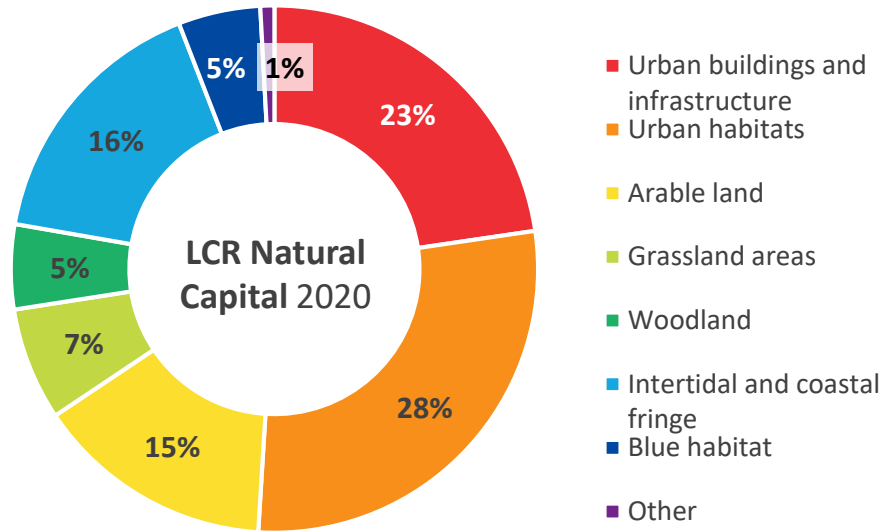


2018/19 locations: Bootle, St Helens, Liverpool & Widnes.
 2019/20 figures have not been included as COVID-19 travel restrictions were imposed and only 2 of the 5 surveys were completed.

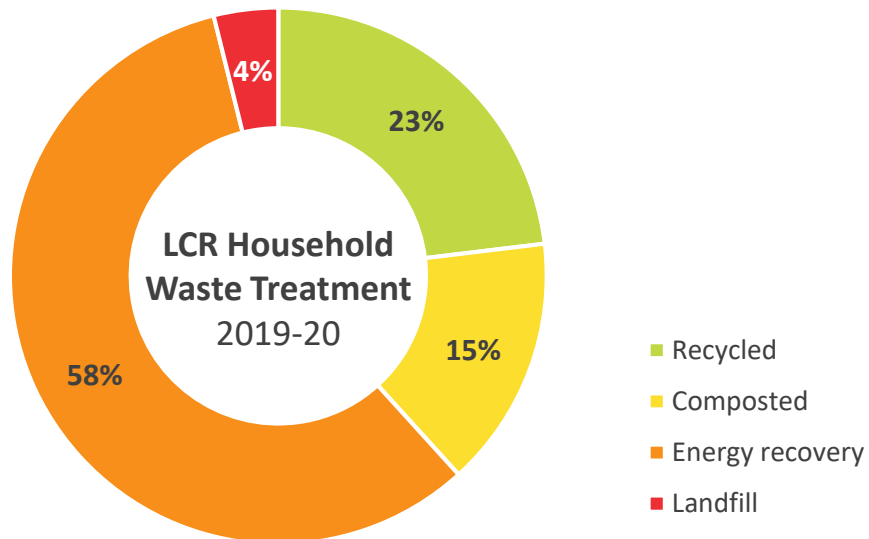
Air Quality



Land Use



Waste



Data Sources

Emissions in the LCR by Sector and Emissions in Each District and Sector

UK local authority and regional carbon dioxide emissions national statistics: 2005 to 2018 - GOV.UK (www.gov.uk)

Energy

Liverpool City Region Energy Strategy

Flooding Map

Liverpool City Region Combined Authority

Vehicle Miles in the LCR

Road traffic statistics - Local authorities across Great Britain (dft.gov.uk)

Modal Share

Modal Share Report, MOTT MacDonald

Housing

Domestic Energy Map (domesticenergymap.uk)

Air Quality Map

Liverpool City Region Combined Authority

Land Use

Baseline Natural Capital Assessment for the Liverpool City Region, Liverpool John Moores University pdf (liverpoolcityregion-ca.gov.uk)

LCR Household Waste Treatment

Waste Data Flow, Merseyside Recycling and Waste Authority data for Merseyside and Halton



LCR Climate Action Plan for 2021/22

The actions in this Year One Action Plan lay the foundation of our collective work to reach net zero carbon by 2040; it highlights significant activity that starts, continues to be implemented or will be completed in 2021/22.

Many of the actions cross multiple Climate Action Themes; the icons highlight the main themes of that action, they are:

[Show icons here](#)

Climate Change and Resilience

Air Quality and Transport

Water

Accessible Green Spaces, Habitats and Biodiversity

Waste and Resources

Health and Wellbeing

Carbon and Environmental Literacy

Sustainable Energy

Food and Agriculture

Overarching Actions



Reference	Action
OA1	Deliver a net zero carbon 2040 action plan following engagement across the Liverpool City Region, setting in place a pathway to 2040 and interim targets
OA2	Create and deliver an approach to COP26 global climate change summit in November 2021 that engages business, industry, third sector and citizens of all ages across LCR
OA3	Create and implement a single framework for the CA whereby social and environmental values are embedded into the assessment of policy decisions
OA4	Create a mechanism to make sure conditions in line with the 2040 net zero commitment are attached for organisations seeking financial or other support from the CA
OA5	Set up a dashboard where progress and achievement of actions can be reported in a transparent and accessible manner
OA6	Work with policy leads from all 6 local authorities to align our visions and strategies behind climate action, including dashboard monitoring of progress
OA7	Seek opportunities for private funding and lobby government for green public works project investments and leadership
OA8	Develop a pipeline of climate-aligned projects in collaboration with partners that can be brought forward for rapid implementation when funding opportunities arise
OA9	Complete next phase of work on the Spatial Development Strategy consultation and draft document which will underpin the future development of the LCR
OA10	58 environmental projects taking place across the LCR in 2021, funded through the Community Environment Fund and across all themes
OA11	10 projects with an environmental focus to complete in 2021, funded through the Future Innovation Fund
OA12	Develop a clear understanding of the future green jobs and skills requirements, including a refresh of the Low Carbon Skills for Growth Action Plan
OA13	Work with colleges, local authorities, independent training providers, universities and the voluntary/community sector to develop locally responsive green skills provision
OA14	Work with business partners including the LEP and Growth Platform to understand what support businesses require to take action on the climate agenda, setting out a strategy with clear responsibilities

Policy and Action Planning



Reference	Action	Theme
PA1	Complete modelling of LCR carbon descent pathways aligned to the Paris Agreement for publication as part of the LCR 2040 Climate Action Plan	Climate Change and Resilience Air Quality and Transport Accessible Green Spaces, Habitats and Biodiversity Sustainable Energy Waste and Resources
PA2	The LCR Combined Authority will introduce climate and carbon impact reporting in decision making and committee reports	Climate Change and Resilience Air Quality and Transport Accessible Green Spaces, Habitats and Biodiversity Sustainable Energy
PA3	Climate Action Planning is to continue in LCR Local Authorities, for example; <ul style="list-style-type: none"> CA will write a new Carbon Action Plan to manage and reduce its organisational carbon emissions from 2020/21 to 2025/26 against a 2019/20 baseline Halton Borough Council will develop a Climate Change Action Plan to meet the objective of the recent Climate Emergency motion approved by the Council Knowsley Council will develop a Borough-wide Climate Emergency Action Plan Liverpool City Council will complete the detailed review of actions required to deliver net zero carbon 2030, working with City Plan partners and city stakeholders to agree a collective approach to delivery Wirral Council will introduce a council carbon budget aligned with the corporate target of net-zero by 2030 	Climate Change and Resilience Air Quality and Transport Accessible Green Spaces, Habitats and Biodiversity Sustainable Energy
PA4	Recognising the importance of the visitor economy to the City Region, participate with partners to setup a network to determine a pathway for reducing climate impacts in these sectors	Climate Change and Resilience Air Quality and Transport Accessible Green Spaces, Habitats and Biodiversity Sustainable Energy Waste and Resources
PA5	Continue to engage with all central Government departments to reinforce LCR's commitment to achieving a net zero carbon goal, particularly in the period leading to COP26 in November 2021	Climate Change and Resilience Air Quality and Transport Accessible Green Spaces, Habitats and Biodiversity Sustainable Energy

Climate Change & Resilience



Reference	Action	Theme
RES1	Complete an investigation on the resilience of critical infrastructure of the Liverpool City Region, identifying principles and actions to address risk	Climate Change and Resilience Water
RES2	Ensure that resilience risk is embedded in all infrastructure investment risk assessments to assist informed decision making	Climate Change and Resilience Water
RES3	In partnership with LCR stakeholders and agencies, scope out and undertake a climate risk and resilience stock take across relevant plans and programmes	Climate Change and Resilience Water
RES4	Work with partners to bid for funding to implement flood resilience projects across the LCR, particularly in areas affecting residential properties and businesses, focussing on nature based solutions	Climate Change and Resilience Water Accessible Green Spaces, Habitats and Biodiversity
RES5	Work with partners to identify opportunities for nature based solutions to increase resilience across LCR, creating multiple benefits and alleviating flood risk	Climate Change and Resilience Water Accessible Green Spaces, Habitats and Biodiversity

Air Quality



Reference	Action	Theme
AQ1	Work closely with local authorities whose area experiences particularly poor air quality to support their work, secure common approaches and learn lessons from each other	Air Quality and Transport Carbon and Environmental Literacy
AQ2	Map the resources and expertise on air quality across the public sector in the Liverpool City Region so that we can better support each other	Air Quality and Transport Carbon and Environmental Literacy
AQ3	Identify and map areas where increased green space and planting will improve air quality and develop a plan to deliver improvements	Climate Change and Resilience Air Quality and Transport Water Accessible Green Spaces, Habitats and Biodiversity Health and Wellbeing Waste and Resources
AQ4	Set out and publish a plan to improve data on air quality to help prioritisation and decision making	Air Quality and Transport
AQ5	Liverpool City Council will complete the Liverpool Clean Air Plan (LCAP), including for the consideration of a charging city centre Clean Air Zone	Air Quality and Transport Health and Wellbeing
AQ6	Sefton MBC will roll out their Clean Air Crew educational resources on air quality across the LCR funded through the Community Environment Fund	Air Quality and Transport Health and Wellbeing Carbon and Environmental Literacy
AQ7	With academic partners Liverpool John Moores University, continue and complete roll out of real time data collection to inform air quality and active travel policy and action	Air Quality and Transport Health and Wellbeing Carbon and Environmental Literacy

Active Travel



Reference	Action	Theme
AT1	Continued delivery of the £16m European project Sustainable Urban Development (SUD), delivering 52.8km of cycle lanes and 49ha of habitat improvements, match funded from STEP and Transforming Cities Fund	Air Quality and Transport Accessible Green Spaces, Habitats and Biodiversity Health and Wellbeing
AT2	Implement the Local Walking and Cycling Infrastructure Plan Phase 2, delivering 19.4km of continuous cycle route in Halton and to start the route on the Wirral	Air Quality and Transport Health and Wellbeing
AT3	Complete Liverpool City Centre Connectivity 1, the scheme will improve 2.5km of pathways, 0.5km of cycle route, manage traffic in Liverpool City Centre and plant 66 trees	Air Quality and Transport Accessible Green Spaces, Habitats and Biodiversity Health and Wellbeing
AT4	Complete Active Travel Fund Tranche 2 schemes: delivering separated cycle routes, school streets and modal filters to reduce traffic in or through high streets of neighbourhood streets	Air Quality and Transport Health and Wellbeing
AT5	Initiate the Active Travel Fund Tranche 2 campaign to encourage use of the schemes including cycle routes, and launch an active travel website for the LCR	Air Quality and Transport Health and Wellbeing
AT6	Halton Council to expand existing cycle and walking networks particularly around Runcorn Station Quarter	Air Quality and Transport Health and Wellbeing
AT7	Ensure new standards set out in Government technical notes for highways and junctions are enacted to support and enable cycling and walking	Air Quality and Transport Health and Wellbeing
AT8	Review findings from e-scooter trials, followed by a publishing of a plan setting out next steps	Air Quality and Transport

Transport



Reference	Action	Theme
T1	Start delivery of the LCR Digital Strategy, to focus on digital accessibility to help employment and learning at home without travelling	Air Quality and Transport Health and Wellbeing
T2	Complete the trial of new electrical battery technology on the newly purchased Merseyrail fleet	Air Quality and Transport Sustainable Energy
T3	Complete next stage in procurement of 2 new low-carbon Mersey Ferry vessels	Air Quality and Transport Sustainable Energy
T4	Purchase 20 hydrogen fuelled double decker buses, to be used initially on the 10/10A corridor between Liverpool, Knowsley and St Helens (targeting air quality action areas)	Air Quality and Transport Sustainable Energy
T5	Set out a programme of work to move the bus network towards clean fuel	Air Quality and Transport Sustainable Energy
T6	Improve the 10A bus corridor between Liverpool and St Helens, including signal technology upgrades, priority lanes, red routes and bus stop upgrades	Air Quality and Transport
T7	Halton Council to lead on development of an EV/Hydrogen taxi scheme	Air Quality and Transport Sustainable Energy
T8	Work with partners including Highways England, Port of Liverpool and major industries to agree and publish an action plan to move towards zero carbon fuel use	Air Quality and Transport Sustainable Energy
T9	Complete 'State of Freight' investigation into a future zero carbon freight solution	Air Quality and Transport Sustainable Energy
T10	Working with financial and investment partners, identify mechanisms to help everyone transition away from fossil fuel vehicles affordably	Air Quality and Transport Health and Wellbeing Sustainable Energy
T11	Recover patronage of the bus network through the development and implementation of a Recovery Bus Partnership	Air Quality and Transport

Green/Blue Space, Habitats & Biodiversity



Reference	Action	Theme
GHB1	Include environmental requirements (including biodiversity/natural capital, access to nature, water management) in standards for new housing and commercial developments	Water Accessible Green Spaces, Habitats and Biodiversity Food and Agriculture
GHB2	Prioritise areas where natural capital should be enhanced and produce a plan for delivery	Climate Change and Resilience Water Accessible Green Spaces, Habitats and Biodiversity
GHB3	Secure gains in biodiversity and the long term storage of natural carbon through strategic tree planting, restoration, re-creation and management of a broad range of habitats including wetlands and grasslands	Climate Change and Resilience Water Accessible Green Spaces, Habitats and Biodiversity
GHB4	Map access to green space/infrastructure to start addressing injustices in accessibility, especially young people	Climate Change and Resilience Accessible Green Spaces, Habitats and Biodiversity Health and Wellbeing
GHB5	Work with financial partners to create and consult on affordable finance mechanisms for green infrastructure i.e. municipal green bonds	Climate Change and Resilience Water Accessible Green Spaces, Habitats and Biodiversity
GHB6	Utilise natural capital baseline work completed to consider how habitat connectivity could be enhanced to improve biodiversity across LCR and set out a plan to achieve defined targets	Climate Change and Resilience Water Accessible Green Spaces, Habitats and Biodiversity
GHB7	Support partners in delivering the LCR Recreation Mitigation Strategy which seeks to protect important biodiverse sites which are being impacted by increased recreational use	Climate Change and Resilience Water Accessible Green Spaces, Habitats and Biodiversity

Food & Agriculture



Reference	Action	Theme
FA1	Form links with agricultural sector to understand and manage changes to rural and farm support programmes to benefit biodiversity and local food production. Join together to lobby for funding for sustainable farming through the shared prosperity fund and similar opportunities	Climate Change and Resilience Water Accessible Green Spaces, Habitats and Biodiversity Food and Agriculture
FA2	Investigate and map the range of local food and growing projects across LCR and seek their views on future support to reduce carbon emissions from food imports	Climate Change and Resilience Air Quality and Transport Waste and Resources Health and Wellbeing Food and Agriculture

Water

Reference	Action	Theme
WT1	Work with partners including Mersey Rivers Trust, EA, United Utilities and Local Authorities to learn lessons from pilot projects in Sefton on water friendly farming, creating mechanisms to allow these lessons to be shared with the agricultural sector across the City Region	Climate Change and Resilience Water Accessible Green Spaces, Habitats and Biodiversity Food and Agriculture
WT2	Map the network of partners and organisations working in water supply, water management and water quality across the City Region, to determine whether there is a need for additional support in this area	Climate Change and Resilience Water Accessible Green Spaces, Habitats and Biodiversity Food and Agriculture

Waste & Resources



Reference	Action	Theme
WR1	Develop a Zero Waste 2040 strategy for all wastes in the city region, including action plans to reach 55% re-use and recycling by 2025	Waste and Resources
WR2	Move towards a circular economy through improving the effective material resources management by all organisations, and the promotion of positive behaviours from manufacturers and consumers	Waste and Resources Carbon and Environmental Literacy
WR3	Conduct a Circular City Region Scan to understand how barriers can be overcome and opportunities taken, as well as guidance on how to embed the circular economy in the region	Waste and Resources
WR4	Conduct a waste composition analysis (<i>What's in our waste?</i>) to help inform future decisions around waste reduction, reuse and recycling	Waste and Resources
WR5	Develop and support the creation of an LCR Reuse Network consisting of reuse, repair, upcycling and sharing hubs to support waste reduction	Waste and Resources
WR6	Implement the National Waste and Resources Strategy at the City Region level	Waste and Resources

Climate Literacy & Engagement



Reference	Action	Theme
CL1	Produce a climate engagement strategy that will engage with businesses of all sizes, members of the public including young people, the third sector and community organisations to gather insights and opinions on actions	Climate Change and Resilience Air Quality and Transport Water Accessible Green Spaces, Habitats and Biodiversity Waste and Resources Health and Wellbeing Carbon and Environmental Literacy Sustainable Energy Food and Agriculture
CL2	3 carbon literacy projects will take place across the LCR in 2021, funded through the Community Environment Fund, for: <ul style="list-style-type: none"> • People of all ages through the <i>Carbon Literate Communities</i> project • Young people through the <i>PLACED Environmental Academy</i> project • Schools through the <i>Enhancing the Climate and Environmental Literacy of young people</i> 	Climate Change and Resilience Air Quality and Transport Water Accessible Green Spaces, Habitats and Biodiversity Waste and Resources Health and Wellbeing Carbon and Environmental Literacy Sustainable Energy Food and Agriculture
CL3	Climate and carbon literacy training for staff and Members to be expanded in many LCR local authorities, for example: <ul style="list-style-type: none"> • Sefton Council will start all-staff climate and carbon training from May/June 2021 • Wirral Council will achieve carbon literate organisation status with a programme of accredited training for staff and councillors • Liverpool City Council will complete an elected member training programme this year 	Climate Change and Resilience Air Quality and Transport Water Accessible Green Spaces, Habitats and Biodiversity Waste and Resources Health and Wellbeing Carbon and Environmental Literacy Sustainable Energy Food and Agriculture
CL4	Climate Emergency and Action Plan local engagement is to start or continue in many LCR local authorities, for example: <ul style="list-style-type: none"> • Knowsley Council will develop a Climate Emergency Engagement Strategy for residents, community groups, organisations, young people, schools, businesses and partners • Wirral Council will support the Cool Wirral Partnership to encourage local organisations and the public to take action in support of the Cool 2 strategy • St Helens Council will launch a Climate Commission to engage widely on climate matters • Sefton Council will include climate change impacts in all committee reporting from May 2021 with training for report writers • Liverpool City Council will include climate impacts in all reports 	Climate Change and Resilience Air Quality and Transport Water Accessible Green Spaces, Habitats and Biodiversity Waste and Resources Health and Wellbeing Carbon and Environmental Literacy Sustainable Energy Food and Agriculture

Sustainable Energy



Reference	Action	Theme
SE1	Green Homes Grant Local Authority Delivery 1 & 2: invest £11.38m to retrofit approximately 1120 homes across the LCR to high levels of energy efficiency	Health and Wellbeing Sustainable Energy Air Quality and Transport
SE2	Define scope of housing energy efficient retrofit required across the City Region including all Local Authority partners to reach net zero carbon	Health and Wellbeing Sustainable Energy Air Quality and Transport
SE3	Enable and accelerate renewable energy networks/grids in LCR by working in partnership with energy suppliers and Network Operators to overcome barriers	Sustainable Energy Air Quality and Transport
SE4	Work with financial partners to scope out mechanisms to enable affordable renewable energy and efficient products and invest in community energy projects	Sustainable Energy Air Quality and Transport
SE5	Complete work to establish the Offshore Energy Alliance as a regional cluster that promotes the opportunity for low carbon, renewable energy in the Liverpool Bay and Irish Sea	Sustainable Energy
SE6	Progress the Phase 3 development activities related to a Tidal range project in the Mersey and Liverpool Bay area to assess viability of a large scale generation close to urban and industrial demand of the region	Sustainable Energy
SE7	Work with industrial and innovation partners to further develop industrial decarbonisation, including innovative low carbon technologies and fuels	Sustainable Energy Air Quality and Transport
SE8	Form an LCR exchange group to engage with undergraduates and recent graduates on sustainable energy	Carbon and Environmental Literacy Sustainable Energy Air Quality and Transport

Sustainable Energy (Public Sector)



Reference	Action	Theme
SE9	<p>Trial innovative low carbon energy projects in all 6 Local Authorities in the LCR, sharing outcomes and lessons learnt to enable future roll-out, for example:</p> <ul style="list-style-type: none"> ● Halton Borough Council will retrofit the DCBL Stadium with electric heat pumps and LED lighting ● Wirral Council will commission detailed project delivery studies for a potential low carbon Birkenhead district heat network (subject to Government Heat Network support) ● Liverpool City Council will lead on development of low carbon heating options for Paddington Village and Liverpool Waterfront ● Halton Borough Council will develop a renewable micro electrical grid to connect the existing 1MW solar farm at St Michael’s Golf Course to the Council stadium, office, leisure centre and depot ● Sefton Council will carry out a solar PV options appraisal with Economic Regeneration team ● Knowsley Council will implement innovative energy retrofit in historic building settings 	Sustainable Energy Air Quality and Transport
SE10	Work with public sector bodies across LCR to align energy efficiency and carbon reduction projects, sharing lessons and supporting co-ordinated action	Sustainable Energy Air Quality and Transport
SE11	Assemble a collaborative project pipeline of energy efficiency and renewable energy projects in the public sector, assisted by support from Local Energy North West Hub	Sustainable Energy Air Quality and Transport



Next Steps

During the timeframe of this Year One Climate Action Plan, we will:

- engage with the public to find out their views, opinions and commitments.
- engage with businesses of all sizes, industry and the third sector in LCR to find out their climate priorities, opinions and commitments.
- take these views into account in drafting a plan for the LCR to reach net zero carbon by 2040.
- publish a net zero carbon 2040 Climate Strategy and Action Plan for the LCR.
- collect information about our partners' action plans to enable collective achievements to be reported.

At the end of this Year One Climate Action Plan, we will:

- review the CAs and our partners' activities in this action plan to monitor progress.
- continue to review and report key indicator data to understand the impact of our collective actions.

Year One Climate Action Plan 2021/22

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We welcome your comments and feedback which will help us improve our future planning.

If you would like to get involved, share your thoughts or find out more information, please visit:

[Energy and Environment | Liverpool City Region Combined Authority](https://www.liverpoolcityregion-ca.gov.uk/energy-and-environment)
([liverpoolcityregion-ca.gov.uk](https://www.liverpoolcityregion-ca.gov.uk))

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