

READING BOROUGH COUNCIL

REPORT BY DIRECTOR OF ECONOMIC GROWTH AND NEIGHBOURHOOD SERVICES

TO:	ADULTS SOCIAL CARE, CHILDREN'S SERVICES AND EDUCATION COMMITTEE		
DATE:	1 st July 2019		
TITLE:	CLIMATE EMERGENCY		
LEAD COUNCILLOR:	CLLRS TERRY/PEARCE/JONES	PORTFOLIO:	ADULTS SOCIAL CARE, CHILDREN'S SERVICES AND EDUCATION
SERVICE:	REGENERATION AND ASSETS	WARDS:	BOROUGHWIDE
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1. PURPOSE OF REPORT

- 1.1 This report outlines the Council's progress to date in tackling climate change, work in progress and sets out the proposed approach to responding to the climate emergency declaration made by the Council on the 26th February 2019. The matters raised in this report and recommendations will form the basis of a report to Policy Committee in July.

2. RECOMMENDATIONS

The Committee:

- 2.1 Welcomes the progress made to date by the Council's proactive approach to addressing climate change issues and impacts in Reading, while noting the scale of the on-going challenge.
- 2.2 Resolves to embed the climate emergency declaration across all Council services, activities, plans and other relevant work to ensure a fully integrated and systematic approach to the Council's own response to this challenge. Each Committee will be presented with this report highlighting the amendments to the terms of reference and asked to consider how they can contribute to achieving this agenda.
- 2.3 Agrees that while the Council will lead by example the scale of the climate emergency challenge requires action across all of Reading's communities. To this end the Council will work with and through the long-established Reading Climate Change Partnership and Reading UK to align respective strategies towards ensuring they secure the active participation of residents, businesses and other organisations across the borough.
- 2.4 Asks the Chief Executive to write to the Government and local MPs setting out the urgent need to equip local authorities with the policy framework, powers and funding necessary to deliver this critical agenda.
- 2.5 Agrees that all future Council Committee reports include a section on environmental implications and necessary mitigations and all reports to those committees consider the impact of the decisions they are taking on the council's ability to respond to the Climate Emergency and achieving a carbon neutral Reading by 2030.

3. POLICY CONTEXT

- 3.1 In signing the global Climate Agreement which came into force in November 2016, the UK undertook to aim to limit global warming to one and a half degrees. In line with that commitment, the Council became one of 80 local authorities to sign the UK100 Clean Energy Pledge, an extract of which is set out below:

We have the ambition of making all our towns and cities across the UK 100% clean before 2050, in line with the commitments made nationally and internationally at the Paris Summit.

- 3.2 Reading Borough Council has a long standing commitment to action on climate change. A signatory to the Nottingham Declaration on Climate Change in 2006, it was one of the first authorities to produce a detailed Climate Action Plan. Among other achievements over this period, CO₂ emissions in the Borough have fallen by 41% which is greater than all but 19 of the 405 authorities in Great Britain and that the Council has reduced its own emissions by 53% since 2008.
- 3.3 Notwithstanding this progress and in acknowledgement of the scale of the on-going challenge, on the 26th of February 2019 the Council declared a Climate Emergency and resolved to take action to accelerate a carbon neutral Reading to 2030.
- 3.4 The remainder of this report sets out work in progress and the actions identified to reach a zero carbon position by 2030.

4. CURRENT POSITION AND WORK IN PROGRESS

- 4.1 The Reading Climate Change Strategy - "Reading Means Business on Climate Change" has been in place since 2013. It was Reading's second climate strategy and was the first to be launched and owned by the Reading Climate Change Partnership. See the Appendix 4 for the action plan and summary.
- 4.2 The Council is working closely with the Reading Climate Change Partnership in coordinating the development of the new Reading Climate Change Strategy, which will be launched in April 2020. The timetable for this strategy has been brought forward by six months due to the declaration of the Climate Emergency.
- 4.3 Reading's planning policies include a number of requirements on developers in relation to climate change, including CO₂ emission standards of buildings, adaptation to climate change measures and requirements for decentralised energy. The new Local Plan, which is expected to be formally adopted in November 2019, goes significantly further in setting requirements for zero carbon planning on all large residential developments and BREEAM 'Excellent' standard on large commercial developments.
- 4.4 Reading's Carbon Plan 2015-2020 sets out how the Council will reduce its emissions of greenhouse gas from their own operations. The plan includes the target to reduce emissions by 50% from the 2008/9 level. This target was met three years early in 2017/18. The plan also contains a target to generate 20% of the Council's energy from renewable sources by 2020.
- 4.5 The Council has run a SALIX energy efficiency programme since 2008, has installed 13,000 streetlights and circa 7000 solar panels on Council buildings. In addition, the Council helped to set up Reading Community Energy Society, which installs solar panels funded by community share.

4.6 The Council's sustainable transport programmes include the very successful and sustainable bus fleet, extended cycle network including a new pedestrian and cycle bridge over the river Thames and a number of park and ride schemes.

5. CLIMATE EMERGENCY ACTION FRAMEWORK

5.1 It has been identified through modelling that the following fundamental actions would be needed to make significant progress towards a carbon neutral Reading by 2030. (more information on modelling is given in Appendix 1)

- i) Widespread retrofitting of private and public housing stock and commercial buildings with insulation and other energy efficiency measures.
- ii) Putting solar arrays on most of the suitable roof space and erecting more large wind turbines.
- iii) Significantly less petrol and diesel powered vehicles on Reading's roads, through more cycling and walking and accelerated uptake of electric vehicles.
- iv) Widespread use of smart technologies for energy storage and connecting to local power grids.
- v) Recycling standards on industry and supermarkets whilst supporting the delivery of increased recycling rates and maximising the potential to generate clean local energy from waste.
- vi) Developing innovative solutions to include district heating systems, ground source heat pumps and the use of rivers and watercourses to generate energy.

5.2 The four key technical challenges are:

- i) Low carbon buildings - retrofitting at scale.
- ii) Renewable heat and electricity supply - scaling up renewables.
- iii) Sustainable transport - phasing out petrol and diesel.
- iv) Smart Energy - smoothing out the power.

5.4 Internally, a Corporate Task Group will be established to oversee the co-ordination of a Climate Emergency Framework, ensuring its principles and objectives are embedded as part of day to day business and that key projects are taken forward across all Council Directorates.

5.5 A cross Committee approach will be established within the Council, whereby all the standing Committees of the Council will report on the relevant elements of Reading's Climate Change Strategy and the Climate Emergency Action Framework. Relevant guidance for the identification of environmental implications and the necessary mitigations that should be undertaken, will be provided in the Committee report templates. The Terms of Reference of the Committees have been amended to include: '*Climate Change Strategy - To contribute to and adopt the relevant parts of the Climate Change action plan.*' A new Cleaner Air and Safer Transport Forum has also been set up. The draft terms of reference are shown in Appendix 5.

Indicative Committee Work Programme

5.6 The Adults Social Care, Children Services and Education (ACE) Committee's key work areas will include overseeing actions which will flow from the various 'theme action plans' of the Reading Climate Change Strategy and those that relate to the cross cutting themes of education, communities and adaptation.

The Committee will need to consider a wide range of factors relating to these. A list is provided below to guide the Committee on the considerations but this is not exhaustive:

- The carbon footprint of operational facilities
- The opportunity for renewable energy infrastructure
- Travel and transport plans including cycling electric vehicle charging facilities etc
- The sustainable design and construction of new facilities/buildings
- The supply chains and procurement arrangements for services commissioned
- Communication of environmentally positive behaviours to staff and users
- The maintaining and enhancing of natural environments
- The consideration of risks to vulnerable groups (for example fuel poverty)
- The use of natural resources
- Encouragement and support for educational campaigns
- Involvement of service users in the Reading Climate Action Network
- Educational programmes relating to the national curriculum
- The development of key skills relating to a low carbon, clean growth future.

Partners and Stakeholders

- 5.7 The delivery of the scale of change that is needed to achieve a carbon neutral Reading will require a continued internal effort within the Council but cannot be achieved without significant national policy changes and national and local actions by businesses, residents and other stakeholders.
- 5.8 Reading Climate Change Partnership has a broad representation across the business, community and public sectors. This external focus will continue to build a network of dedicated champions who can engage at all levels to influence, persuade and lead by example to bring about the extended involvement of all communities across the borough.
- 5.9 The consultation launch for the third Reading Climate Change Strategy launch took place on the 13th June 2019. Six themes were set out at the event, representing the potential chapters of the new strategy. Workshops at the event split the participants into these six theme groups. Theme groups will meet subsequently and together develop an action plan for their theme. Each group has a 'theme coordinator' who will be responsible for the development of their theme action plan.
- 5.10 The six proposed themes of the strategy are:
- > Energy and Low Carbon Development
 - > Natural Environment
 - > Resources and Consumption
 - > Sustainable Transport
 - > Health
 - > Water Supply and Flooding
- 5.11 The event was attended by more than 120 people. Hundreds of ideas for actions within the six themes were articulated. Attendees were invited to consider how to approach implementation from a range of points of view.
- 5.12 Each of the theme groups will reflect on ideas tabled at the event and discuss gaps and delivery approaches, producing a themed action plan by December. They will meet at least two more times over this period and feed into the main partnership.
- 5.13 Ideas that came forwarded included:
- > Renewable energy and whole building retrofit,
 - > Electrically powered shared public and private transport
 - > A safer and extended cycling and walking network

- > Clean air, re-wilding, more tree planting and plants for bees
- > Greater preparedness for climate risks such as extreme weather
- > Waste minimised through re-use and repair
- > A 'circular economy' that re-processes products using renewable energy.

5.14 In the business space this change requires stakeholders including Reading UK, Reading 2050, the Local Enterprise Partnership, the Chamber of Commerce and a number of business role models who are able to share best practice and build B2B approaches. The Council will seek to influence partners' strategies and plans to ensure the climate change agenda is fully considered to include, for example, the LEP's emerging Berkshire Local Industrial Strategy. Local start-up companies and SMEs will be supported in bringing forward innovative solutions.

5.15 The national policy framework, broadly set out under the Climate Change Act, remains critical to the delivery of Reading's Climate Emergency work. Grant funding and subsidy payments will be required to support investment in new technologies. Statutory powers to improve buildings for example are crucial in enabling Councils and other parties to drive forward a low/zero carbon pathway.

6. CONCLUSION AND RECOMMENDATIONS

6.1 In conclusion, the delivery of a carbon neutral pathway by 2030 requires a substantial and sustained effort by all citizens and organisations in Reading. The investment in technology pathways will require innovative new approaches which, in many cases, will rely on the levers of national policy and the resources that are made available through the government's programme on climate change.

6.2 The new Climate Change Strategy will contain the carbon neutral 2030 framework for action. It will contain details of the modelling work and establish a pathway to a carbon neutral Reading. It will outline the specific contributions from a range of different stakeholders.

6.2 The Council calls upon the wider communities and organisations in the Borough to actively engage with the programme and work with the Council and other partners through the Reading Climate Change Partnership and its network, the 'Reading Climate Action Network'.

6.3 Over the next decade, Reading must substantially reduce its use of fossil fuels through the reduction of energy consumption. This will be coupled with a major increase in the amount of renewable electricity and heat generated, which will help to power the widespread electrification of heat and transport.

6.4 The Council and the Reading Climate Change Partnership will play an important part in galvanising action on climate change and in encouraging and supporting local communities and business to change to a carbon neutral pathway in order to play our part in averting the worst effects of climate change.

7. CONTRIBUTION TO STRATEGIC AIMS

Given the wide remit of this agenda the proposals set out in this report support the delivery of all of the Corporate Plan Service Priorities:

- Securing the economic success of Reading
- Improving access to decent housing to meet local needs
- Protecting and enhancing the lives of vulnerable adults and children
- Keeping Reading's environment clean, green and safe

- Promoting great education, leisure and cultural opportunities for people in Reading
- Ensuring the Council is Fit for the Future

7.1 Amendments are proposed to the current emerging Corporate Plan to fully reference the climate change agenda.

8. COMMUNITY ENGAGEMENT AND INFORMATION

8.1 Widespread community engagement is taking place in the updating of a range of Council strategies including the upcoming revisions to the Reading Climate Change Strategy, Housing Strategy and Local Transport Plan 4.

9. EQUALITY IMPACT ASSESSMENT

9.1 Under the Equality Act 2010, Section 149, a public authority must, in the exercise of its functions, have due regard to the need to—

- eliminate discrimination, harassment, victimisation and any other conduct that is prohibited by or under this Act;
- advance equality of opportunity between persons who share a relevant protected characteristic and persons who do not share it;
- foster good relations between persons who share a relevant protected characteristic and persons who do not share it.

9.2 It is not considered that an Equality Impact Assessment (EIA) is required for the decisions being made in this report. The individual strategies and projects will be considered separately in due course.

10. LEGAL IMPLICATIONS

10.1 This report sets out the intended approach to establishing policies, procedures and programmes to meet the objectives set out in the Climate Emergency resolution. Modifications to policies procedures and programmes will be made pursuant to the General Power of Competence contained in sections 1-6 of the Localism Act 2011 and/or additional statutory powers detailed below.

10.2 The following statutes and regulations being the Climate Change Act, the Minimum Energy Efficiency Standards Regulations, the Energy in Performance in Buildings Regulations 2012, The Heat Network Regulations, the Local Government (Miscellaneous Provisions) Act where relevant will be relied upon to deliver the programme, which is set out in the Reading Climate Change Strategy.

11. FINANCIAL IMPLICATIONS

11.1 The financial implications of the delivery of the Climate Change Strategy and other relevant strategies and specific projects will be reported when specific plans and proposals are brought in due course. Risk Assessments will be carried out for these individual projects.

11.2 The Council spends over £2m per annum on energy and has a capital programme for investing capital in energy efficiency projects. Investment of capital through the SALIX programme, typically meets the 10 year repayment condition, helping to avoid rising energy costs. Other energy projects offer a return on investment.

11.3 It is estimated that over £150m is spent per annum by Reading's residents and employees on energy and fuel. By investing in energy efficiency, renewable

energy generation and electrification of heat and transport, this annual expenditure could be reduced by instead spending on projects which would have the benefit of creating jobs and saving money for all. Where positive business cases are brought forward projects can offer value for money.

12. BACKGROUND PAPERS

Appendix 1: Modelling a Zero Carbon Pathway

Appendix 2: Existing Projects

Appendix 3: Item 11 Full Council - 26th February - Council Climate Emergency Declaration

Appendix 4: 'Reading Climate Change Strategy 2013-20 Action Plans

Appendix 5 - Draft Clean Air Safer Transport Forum Terms of Reference

Appendix 1 - Modelling a Zero Carbon Pathway

- 1.1 Reading Borough Council carried out initial modelling to establish a potential pathway for a zero carbon Reading. This was reported to Strategic Environment, Planning and Transport (SEPT) Committee in March 2018.
- 1.2 The model utilises the Department of Business , Energy and Industry Strategy (BEIS) carbon emissions data for local authorities and converts this to power. It uses standard yield and performance data to calculate the contribution of power to the local networks. It does not take account of the different time of day or year that the power is used/generated.
- 1.3 Whilst the initial model should only be regarded as a rough assessment of what potential there might be in Reading according to our local understanding, it sets out a possible blueprint for technology and infrastructure development that is needed rapidly if carbon neutrality is to be achieved by 2030.
- 1.4 The modelling assumes a very ambitious programme of energy efficiency is carried out in Reading and energy consumption is reduced by just over 50%. It also seeks to calculate the amount of renewable energy installations that could potentially be achieved without taking account of many of the technical and practical challenges associated with this scale of roll out.
- 1.5 The model showed that there is potentially considerable renewable heat potential utilising Reading's rivers, ground and gas from food waste and sewerage waste. Together these could supply a large proportion of the town's heat.
- 1.6 In the scenario modelled, renewable electricity generation would be largely provided by solar panels. This would require a considerable increase in the prevalence of this technology, requiring an order of magnitude change in the number of roofs in the borough which have solar panels installed.
- 1.7 Additional electricity would be needed for heat and the electrification of transport. The model showed that this extra load would mean that even with all the other work to reduce demand and increase renewable supply, there would remain a substantial gap in the amount of clean electricity available.
- 1.8 There are a number of obstacles which could potentially lead to certain technology solutions offering significantly less energy than shown. The pathway would need to have a high degree of flexibility to ensure that, as trials and commercial pilots yield information about the real potential of technologies, the model can be adjusted to ensure that the correct development pathway progresses. Further modelling work will be carried out to establish a range of scenarios and sensitivities using the Government backed recently published 'SCATTER' tool.
- 1.9 The modelling work showed the following four key technical challenge areas associated with delivering a carbon neutral Reading:-
 - i) Low carbon buildings - retrofitting at scale.
 - ii) Renewable heat and electricity supply - scaling up renewables.
 - iii) Sustainable transport - phasing out petrol and diesel.
 - iv) Smart Energy - smoothing out the power.

Appendix 2 - Existing Projects

The Council has already progressed work in these areas and continues to work on key projects which will help to take this framework forward.

Low Carbon Buildings

The Council's Carbon Plan 2015-20 outlines its approach to reducing emissions to 50% of 2008/9 levels by 2020. This target was met three years early in 2017/18.

A number of low carbon projects have been progressed over the course of the delivery of the last two climate change strategies. Around 100 SALIX energy efficiency projects have been delivered in the Council estate including a full retrofit of the current civic offices and the town hall.

Over 2000 properties were insulated under the Heat-seeker project in the first climate change strategy and whilst national funding was significantly reduced the Council has continued to provide a fuel poverty service called Winter Watch, which has visited hundreds of homes and assisted in obtaining funding for energy efficiency measures large and small to householders.

The Council was a Green Deal Pioneer, but the national policy was scrapped and no Green Deals were rolled out.

A number of grant funded boiler replacement schemes were installed into Reading social housing stock. Reading's own housing stock has a SAP rating of 73%.

Reading was one of the first UK authorities to include zero carbon planning in its new Local Plan. This policy awaits the outcome of the inspection process before it will be adopted. The policy is designed to re-invest funds from large developments where they cannot feasibly achieve zero carbon standards on the site into local projects, including housing retrofit.

The Council is currently planning the refurbishment of the Bennet Road depot. The project incorporates a range of innovative and energy efficiency measures, aiming to reduce the carbon footprint substantially. Modelling is being carried out to determine the business model for investment including consideration of renewable technologies, battery storage and charging for electric Council fleet vehicles.

The Council is in the process of completing a replacement of 100% of the streetlights in the borough with LED lamps. The replacement of 13,000 street lamps will save over 1000 tonnes of CO₂ per annum and reduce electricity bills by approximately £200k per annum.

Renewable Electricity

The Council has invested in solar PV on 457 Council houses and 46 corporate and community buildings. In total the Council owns around 7000 panels or 2MWp of generation capacity. This amounts to around 1/3 of the solar panels installed in the Borough.

In addition to the above, the Council helped to set up Reading Community Energy Society, which is in the process of installing its second phase of community funded solar panels on local buildings, bringing the total to around 2400 panels or 600kWp of generation capacity.

The Council is planning a range of projects looking at the effectiveness and scalability of different technology combinations, working closely with the University to monitor the performance of the technologies and assist in optimising their performance.

The Council and Reading Transport are working with Reading Community Energy Society to install larger unsubsidised solar PV schemes including the bus depot. Together with the existing solar PV on the bus depot, this will be the largest solar install on a single building in Reading, slightly bigger than the arrays on the Council's civic offices which total 148kWp (~700) panels.

Renewable Heat

The Council has implemented one biomass heating scheme at Cedar Court, with a connection to an adjoining building.

As the grid decarbonises, heat pumps become more sustainable than gas based systems. The most efficient heat pumps utilise the heat resource available in the ground and rivers.

The Council has been successful for the third time in securing Heat Network funding from the Heat Network Delivery Unit. The most recent project outlined feasibility for a district heating network in Reading town centre. A key recommendation was that schemes in the town centre could harness renewable heat from the river, aquifers and ground source heat.

A new project will focus on the development opportunities in the town centre and bringing these into operation. Strategic sites such as Station Hill and the ex-Royal Mail site offer the density and opportunity to deliver schemes with renewable heat.

Sustainable Transport

Reading has delivered a great number of initiatives and programmes under its Local Transport Plan 3 to move towards a more sustainable transport system. Reading Buses has continued to expand its fleet of low or zero carbon buses with a fleet of over 40 sustainable CNG powered buses. These buses are fuelled by compressed natural gas, for which biomethane has been injected in equivalent volumes into the national gas grid from regional sources. Reading has the third highest per person passenger numbers in the UK outside London.

A number of pedestrian and cycling infrastructure projects have been implemented including the new pedestrian and cycle-bridge over the river Thames.

The Council has invested in electric vehicle charging points at the Civic Offices and Depot site. These offer charging facilities for up to ten vehicles at a time.

Two fast-charge units are available to the public behind the Civic Offices.

The Council is in the process of designing the install of a number of charge points in areas of on street parking, where residents do not have access to off street parking and thereby home charging. The charging points will be set into the lamp columns (posts) and made readily available within the trial area.

Reading's licensed (Hackney Cab) taxi fleet have committed to be 100% Ultra Low Emission vehicles by 2030.

Smart energy systems

The Council has been installing 'smart' Automatic Meter Reading (AMR) on its electricity and gas meters. Over 90% of its energy consumption is via these meters. In 2018, a number of meters were upgraded to AMR under P272 regulations. AMR meters allow the Council to have access to 'half hourly' consumption data.

The Council is currently modelling PV/battery scenarios at its Bennet Road Depot site. Battery storage would be used to smooth out peak energy periods when power on the grid is at its most carbon intensive or 'brown'.

Electric Vehicles can be used as an energy storage facility. As well as controlling when charging occurs, future models will incorporate 'Vehicle to Grid', where cars can export electricity back to the grid. The Council has procured a number of Electric Vans and is modelling future uses of electric vehicles as power providers to buildings and other power uses.

READING BOROUGH COUNCIL

COUNCIL MEETING

26 FEBRUARY 2019

ITEM NO 11 - CLIMATE EMERGENCY - TOWARDS A ZERO CARBON READING - ALTERED

Reading Borough Council (RBC) believes the world is now clearly in the midst of a climate emergency and that more concerted and urgent action is needed at local, national and international level to protect our planet for future generations. **As such, this Council commits to playing as full a role as possible – leading by example as well as by exhortation - in achieving a carbon neutral Reading by 2030.**

RBC has a long standing commitment to action on climate change. A signatory of the Nottingham Declaration on Climate Change in 2006, the Council was one of the first authorities to produce a detailed Climate Action Plan.

We note that CO₂ emissions in the Borough have fallen by 41% since 2005, which is greater than all but 19 of the 405 authorities in Great Britain, and that Reading Borough Council has reduced its own emissions by 53% since 2008.

Reading is urban in nature and the majority of emissions are from the use of fossil fuels and energy to run buildings and transport. Methane is also harmful to the climate. In Reading, these emissions are primarily from food, human waste and landfill. Gases from the latter two are captured and used to generate energy.

Despite good progress at local level, new evidence continues to emerge about the scale of the likely impacts of climate change. We are now aware through the launch of the Special Report of the Intergovernmental Panel on Climate Change in October 2018 that, in order to reduce the risks of severe climate change, all countries must act much more quickly.

This Council was proud to host the Model Climate Conference in December 2018 in this Chamber attended by students from local secondary schools, which coincided with the Katowice Climate Conference (COP24), and resulted in all the participating students stressing the urgency of climate action and pressing the Council, Government and others to act quickly.

RBC notes that we have already set out a number of ambitious policies and actions which will help to pave the way for the delivery of a Zero Carbon future such as:

- 'Zero Carbon Standards' within its draft Local Plan,
- The RBC Carbon Plan
- The forthcoming consultation on options, such as a Clean Air Zone, for improving local air quality and reducing congestion prior to publishing our draft Fourth Local Transport Plan
- The Reading Climate Change Partnership and Strategy - Reading Means Business on Climate Change
- The Launch of Reading Community Energy Society

This Council therefore instructs officers to report to the SEPT and Policy Committees on further potential measures that could accelerate the timescale for reducing carbon dioxide emissions to zero by 2030, but recognises that this date can only be achieved with substantial policy changes from national government.

Council also requests officers to ensure that forthcoming revisions to the Local Transport Plan and Climate Change Strategy (and any other relevant policy statements) reflect the urgency of this resolution.

The Council also calls on the Government to follow the recommendations of the Committee on Climate Change and radically improve the policy framework including, for example:

- detailed and practical proposals for retrofitting private and public housing stock, where the Green Deal failed.
- upgrade social housing energy efficiency to higher standards
- more support for renewable electricity and heat (and not taxing them unfairly)
- more support for establishing renewably powered heat networks
- more support for the smart technologies and storage and connecting to local power grids.
- more support for electric vehicle infrastructure and ownership, whilst incentivising the scrappage of older polluting vehicles
- more national investment in cycling and walking policies, and the expansion of public transport and car clubs using the latest zero carbon technology
- working with local businesses to improve their energy efficiency
- putting solar arrays on most of the suitable roof space and erecting more large wind turbines
- developing local energy storage facilities
- establishing national recycling standards on industry and supermarkets whilst supporting the roll-out of food waste collection and its use for the generation of clean local energy
- building a town centre district energy system which harnesses heat from local rivers or watercourses
- establishing the widespread use of ground-source heat pumps and potentially air source heat pumps
- amending local authority procurement powers to require the delivery of carbon neutral environmental strategies by private sector suppliers

The Council calls on the Government to give Reading as soon as possible the additional powers and funding needed to ensure that Reading is carbon neutral by 2030.

The Council therefore instructs the Chief Executive to write to our local MPs, **and to the Prime Minister and to relevant Government departments (DEFRA, MHCLG, DfT, and Treasury)** setting out the above requirements and the need for new legislation and financial support to deliver this radical agenda.

I move this

I second this

.....

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Councillor Page

Councillor

Theme 1: ENERGY SUPPLY

The heavy dependence on fossil fuels to provide energy in the UK has been identified as our most significant impact on global climate change. It is therefore crucial that we consider how our energy is produced, supplied and consumed in order to reduce our impact on climate change and to meet the needs of our society in the long term.

To achieve this, we need to be efficient with the energy we use and find clean and ‘green’ ways of producing heat and electricity. Firstly, we must conserve energy by insulating our homes and reducing our consumption of electricity through switching off and improving the efficiency of our energy consuming devices. Secondly, we must generate a larger proportion of our energy from renewable sources like wind and solar. Thirdly, we must consider the right sort of infrastructure to provide energy locally. This will involve heat networks that provide low carbon heat directly to buildings and a smart grid where the right amount of energy is generated and little is wasted.

Vision by 2020: By 2020, Reading will use less energy and have cleaner, greener supplies of electricity and heat. We will have increased the amount of locally generated renewable energy. Local smart grids and power plants (decentralised energy) will start to be developed to offer more responsive, cost effective, low carbon energy to consumers. Smart meters will be installed across the borough to improve monitoring and control of local energy supply. Communities and businesses will work together to reduce their energy consumption and develop low carbon energy solutions.

SUMMARY OF STRATEGIC PRIORITIES

- Reduce energy consumption in Reading
- Decarbonise energy supply of Reading

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
Strategic priority 1: Reduce energy consumption in Reading					
T1SP1.1 ¹	Produce report identifying the commercial and public sector electricity consumption in Reading and identifying key opportunities for energy efficiency		Report	RBC	University of Reading (Technologies for Sustainable Built Environment Centre)

¹ T = theme; SP = strategic priority

READING CLIMATE CHANGE STRATEGY 2013-2020, ACTION PLAN 2018

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
T1SP1.2	Analyse report which identifies the commercial and public sector electricity consumption in Reading. Identify specific technologies that are commercially viable for increasing energy efficiency.	End of 2017	Report completed	Reading Borough Council (RBC)	University of Reading (Technologies for Sustainable Built Environment Centre- TSBE centre)
T1SP1.3	Develop and support a group of organisations to invest in their own energy efficiency programmes	End of 2017	First event planned for 02/17	RBC; UKCIC	University of Reading; Thames Water; large retail stores
T1SP1.4	- Deliver the Council Energy Plan Programme - Deliver BEEP	2020	- Low carbon Street lighting due for completion in Spring 2017- Delivery of BEEP	RBC	Public sector group
T1SP1.5	Continue to offer schools support on energy efficiency and renewable energy investment	2017-2020	- Encourage uptake of SEELS (SALIX Energy Efficiency Loans) funding for schools - Expansions complete to energy efficient standards - Reinstate Business Energy Management System - Support Energy Performance Certificates implementation and Air Conditioning Certification	RBC	Reading Schools
T1PS1.6	Encourage and increase the number of smart meters and other resource monitoring/ saving devices installed in buildings/households and other energy/resource using facilities across	2018-2020		RBC	University of Reading

READING CLIMATE CHANGE STRATEGY 2013-2020, ACTION PLAN 2018

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
	Reading. Encourage their use in Green Park, Apex Plaza				
Strategic priority 2: Decarbonise Reading's energy supply					
T1SP2.1	Produce a model that identifies where electricity loads in buildings can be reduced at peak periods		Engineering Doctorate Thesis with Technologies for Sustainable Built Environment Centre	RBC	University of Reading-TSBE centre.
T1SP2.2	Complete heat mapping exercise	August 2017	Completed report	RBC	RCCP/HNDU
T1SP2.3	Develop district energy projects in Reading amongst partners.	2020	<ul style="list-style-type: none"> - Initial report on options for specific sites - Business planning for sites or private sector driven through planning/investment - Encourage private sector investment into District Energy Networks in Reading through planning 	RBC	Private sector
T1SP2.4	Disseminate information about complete district energy schemes	March 2016	University of Reading scheme	University of Reading	RBC
T1SP2.5	<ul style="list-style-type: none"> - Produce a renewable energy investment strategy to provide 8% of local power, identifying most investable renewable energy in borough. - Aim for 100% of Reading's energy to be produced through renewable sources by 2050 	<ul style="list-style-type: none"> - 2020 - 2050 	<ul style="list-style-type: none"> - Evidence base complete - Workshops with partners - Report to Reading Climate Change Partnership (RCCP) - Consider use of solar photovoltaics, solar thermal, ground source heat pumps, wind, anaerobic digestion, biomass and gasification processes, and hydropower 	Thames Valley Energy	RBC

READING CLIMATE CHANGE STRATEGY 2013-2020, ACTION PLAN 2018

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
T1SP2.6	- Deliver Council Energy Plan Programme - Renewable energy projects to achieve 15% of council energy use by 2020 - Includes Photovoltaic Solar panels and biomass heating.	2020	- 1st Biomass project March 2014 - Solar photovoltaic on housing Aug 2014 - Targets for photovoltaic and biomass TBC	RBC	Reading Sustainability Centre
T1SP2.7	Work with small businesses to encourage uptake of renewable energy	End 2018		RBC, Institute for Sustainability, European Projects	
T1SP2.8	Encourage local communities and businesses to support the development of renewable energy in their communities	July 2014	- Identify potential buildings and locations, and interested parties - Provide technical advice to interested groups	RBC; Reading Voluntary Action, Greater Reading Environmental Network, Transition Town Reading	
T1SP2.9	Create a number of community showcase facilities in Reading and run tours	2018	Identify potential buildings, Reading International Solidarity Centre (RISC) solar and Green Park wind turbine	RBC	Reading International Solidarity Centre; Green Education
T1SP2.10	- Identify planning sites that are suitable for decentralised energy networks. Implement policy to incorporate district energy into appropriate planning sites. - Incorporate these policies into Local Plan		Shortlist of suitable sites identified.	Reading Borough Council, Thames Valley Energy	Climate Berkshire
T1SP2.11	Produce RBC Energy and Carbon Management Policy		Report to Strategic Environment, Planning and Transport committee March 14	RBC	
T1SP2.12	Build local supply chains for technologies by building local skills and engaging local companies in larger contracts			RBC; Institute for Sustainability	Thames Valley Energy
T1SP2.13	Attract local and inward investment options for renewable energy development			RCCP	RBC

Theme 2: LOW CARBON DEVELOPMENT

The quality of the built environment is of crucial importance to our contribution to climate change, through reducing the amount of energy we use in our buildings. Insulating and improving the efficiency of our existing buildings and building highly efficient new buildings are both critical to reducing our energy consumption and carbon footprint, and to reducing energy costs and addressing ‘fuel poverty’. To adapt to climate change and achieve sustainable development, long term economic, social and environmental strategies must continue to evolve and guide the revision of spatial development policies for the future.

Vision by 2020: By 2020, Reading will have reduced its energy consumption from buildings through the improved design, construction and refurbishment of existing buildings. Reading will have improved planning policies in place that reduce energy consumption and will have improved processes to ensure compliance in new-build and renovations. Council policies will emphasise local retrofit and renewable energy programmes and other ways to reduce emissions from the local area. Planning policies and standards for buildings will address energy use, and the local effects of climate change. Strategic planning will assess the long-term implications of development trends on reducing carbon emissions and adapting to the effects of climate change.

SUMMARY OF STRATEGIC PRIORITIES

- Continue to develop planning policies that support the reduction of greenhouse gas emissions directly and indirectly from the borough
- Retrofit energy efficiency measures into Reading’s buildings
- Develop and implement adaptation measures to reduce the impact of high and low temperatures

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
Strategic Priority 1: Continue to develop planning policies that support the reduction of green-house gas emissions directly and indirectly from the borough					
T2SP1.1	Ensure new buildings in Reading meet high standards of energy efficiency in design and construction & install the most appropriate on site renewable energy generating technologies; specifically, review available and emerging standards	Annual	- Sustainable planning policies in place -Number of renewable	Reading Borough Council (RBC)	

READING CLIMATE CHANGE STRATEGY 2013-2020, ACTION PLAN 2018

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
			installations		
T2SP1.2	Research potential to promote high standards of energy efficiency such as Minergie or Passive House	September 2018	- Find appropriate funding - Develop a study	The Reading Sustainability Centre (TRSC); Tony Cowling	
T2SP1.3	Establish a 'Zero Carbon Homes' mechanism with a local carbon offsetting fund.	September 2019	Planning policies in place and fund established.	RBC	
T2SP1.4	Establish and maintain a local public register of Energy Performance Certificates in the Borough - to track progress and to celebrate success and assist with Home Energy Conservation Action (HECA) report	September 2018 and annual update	Register established	RBC (EST to be commissioned initially)	RCCP to fund bi-annual updates.
T2SP1.5	Derive targets for progress with energy saving measures in Reading - to 2020 and 2030 - in line with Climate Change Committee scenarios and evaluate options for retrofit	Initial draft September 2018	Report with recommendations	RBC	
T2SP1.6	- Continue to review strategic plans for economy, housing, population, industry etc. to ensure they are compatible with local and national emissions targets - Revise strategic plans to manage the amount, type, and location of housing and business development in and around Reading to deliver a low-carbon (and low-cost) economy	Ongoing	Consultation response from RCCP to Local Plan	RCCP	Climate Berkshire; Berkshire Local Nature Partnership
T2SP1.7	Revision of LDF to include policies on density, scale, location and distribution of development to deliver a low-carbon economy.	September 2019	Revision of planning policy documents	RBC	University of Reading
T2SP1.8	Promote research in the area of Energy and Built Environment, Low Carbon development etc.	On going	New research development	University of Reading	RBC

READING CLIMATE CHANGE STRATEGY 2013-2020, ACTION PLAN 2018

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
T2SP1.9	Review policies on 'green roofs and walls' in LDF. Include guidance for developers, planners and public on their costs and benefits so that their relative merits for different policy objectives relating to climate change (and other benefits/dis-benefits) can be taken in to account in design and planning	September 2020	Planning policy review Revision of Sustainable Design and Construction SPD	Reading Borough Council	University of Reading
Strategic Priority 2: Retrofit energy efficiency measures into Reading's buildings					
T2SP2.1	Review guidance available for householders and businesses on retro-fitting renewable energy and energy-saving technologies, including technologies, financial assistance such as ECO scheme, and standards such as EnerPHit	December 2018	- Regularly updated web pages Information and links on Reading Climate Action Network(RCAN) - Active publicity campaign	Reading Climate Change Partnership (RCCP)	TRSC; Draught Busters; Tony Cowling
T2SP2.2	HECA report- use information to target energy saving activity and action	March 2019	HECA report	RBC	Housing associations and landlord groups
T2SP2.3	- Develop case studies and show homes networks that encourage renovation and re-use of empty buildings rather than building new homes - Explore links to refurbishments of older buildings	March 2019	Establish specific show homes in Reading through volunteers and/or where funding available - possible link to heritage open days	RCCP	Superhomes network; Reading community groups
T2SP2.4	Renovate existing Council properties to be very low carbon to recognised standards such as EnerPHit.	Ongoing	Report on numbers and standards achieved	RBC	

READING CLIMATE CHANGE STRATEGY 2013-2020, ACTION PLAN 2018

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
T2SP2.5	Evaluate options to encourage retrofit in domestic buildings	March 2019	Report on progress	RBC	
T2SP2.6	Provide service to help house holders - especially those most vulnerable to fuel poverty, and in particular those that are at imminent health risk - to access Energy Company Obligation (ECO) subsidies, energy efficiency improvements, guidance on behavioural change, and other services/funding available	Ongoing	<ul style="list-style-type: none"> - Continue Winter Watch initiative - 1 x staff available to provide service - Reach at least 100 households in need - Investigate flexible ECO 	RBC	Energy companies and switching services; Draught Busters; TRSC
T2SP2.8	- Work with landlords, lettings and managing agents to ensure minimum EPC compliance and encourage improvements in the sector	September 2018	Propose actions to encourage early adoption and enforce compliance	RBC	
Ts2SP2.9	Monitor improvements in energy use achieved by retro-fit measures to Council-owned buildings.	Annual	Annual report	Reading Borough Council	
Strategic Priority 3: Develop and implement adaptation measures to reduce the impact of high and low temperatures					
T2SP3.1	<ul style="list-style-type: none"> - Assess care homes for risk of heat waves - implement measures to ensure that care customers are not at risk of hot conditions - develop low carbon cooling approaches for care homes 	Ongoing	Inclusion in Business Continuity plans	RBC	

READING CLIMATE CHANGE STRATEGY 2013-2020, ACTION PLAN 2018

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
T2SP3.2	Ensure public spaces and park-areas have sufficient shade and places to rest to reduce risks of over-exposure to sun and potential health impacts, through implementation of Tree Strategy (see Natural Environment chapter and Action Plan)	Ongoing - six-monthly report	- 10% increase in canopy cover target from Tree Strategy - Evidence of CC-aware planning for shade	RBC	Tree wardens

Theme 3: NATURAL ENVIRONMENT

The natural environment plays a key role in making our urban spaces liveable, both for people and wildlife. In response to climate change, communities of wild animals and plants will have to relocate from places that are becoming unsuitable for their survival to places where conditions are becoming more favourable. The way that open spaces and parklands are managed can have a significant impact on wildlife corridors and habitats and consequently on wildlife’s ability to survive. Tree planting, for example, can help mitigate both the ‘heat island’ effect (where an urban area is significantly warmer than its surrounding rural areas due to human activities) and the emissions that impact on both climate change and air quality.

The natural environment should be managed and developed to respond to the threat of climate change, including establishing the role of the local community, to make Reading a better place for people and for wildlife.

Vision by 2020: By 2020, Reading will have a thriving and interconnected natural environment, with links and stepping stones, such as parks, back gardens and river corridors. Wildlife will be able to live in and move through the urban environment, allowing it to adapt to a changing climate. The people of Reading will be active guardians of our natural habitats, and the community will be more involved in the management of local green spaces.

SUMMARY OF STRATEGIC PRIORITIES

- Improve the quality and connectivity of natural habitats
- Encourage local community groups and businesses to become more involved in the management of local green spaces

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
Strategic Priority 1: Improve the quality and connectivity of natural habitats					
T3SP1.1 ²	Review the Reading Biodiversity Action Plan and update the plan to take account of climate change	2020	New Biodiversity Action Plan in 2020	Reading Borough Council (RBC)	Nature Nurture, Outdoor Classrooms; Thames Valley Records Centre

² T = theme; SP = strategic priority

READING CLIMATE CHANGE STRATEGY 2013-2020, ACTION PLAN 2018

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
T3SP1.2	Monitor the proportion of Local Wildlife Sites in positive conservation management in line with government guidance on Single Data List 160	Ongoing	- All RBC sites to be in positive conservation management by 2015 - RBC to encourage other landholders to manage their sites	RBC	Other landowners as appropriate. Econet; 'Friends of Parks' groups; Thames Valley Environment Record Centre
T3SP1.3	Keep under review, in light of climate change science: Tree Strategy, Orchard Project, Open Spaces Strategy, Thames Parks Plan and the document 'Reading Waterspace - A Vision for the Thames and Kennet'	Ongoing	Status report. Progress report on each project annually.	Reading Climate Change Partnership (RCCP)	RBC
T3SP1.4	- Identify areas of grass land of highest habitat value and manage as meadow - Align this action with National Pollinator Strategy; Coronation Meadows Strategy	Ongoing	- Staff training / awareness days - Statement about grass cutting policy on website	RBC	Private individuals and volunteer groups; Department for Environment; Food & Rural Affairs; Coronation Meadows
T3SP1.5	Help facilitate the work of the Berkshire Local Nature Partnership in respect of Reading sites	2020	Input to Berkshire Local Nature Partnership	RBC	Berkshire Local Nature Partnership
T3SP1.6	Undertake periodic ecological surveys of Reading's Local Wildlife Sites and review status in line with government and local guidance	Each site is surveyed as a minimum every 5 years	Annual review of surveyed site status	RBC	Thames Valley Environmental Records Centre; Nature Nurture
T3SP1.7	Periodically update the Berkshire phase 1 habitat map	2018	Periodic review approximately every 5 years, next due circa 2018	Thames Valley Environmental Records Centre	RBC; Nature Nurture

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
T3SP1.8	<ul style="list-style-type: none"> - Raise awareness of Biodiversity Opportunity Areas and seek opportunities to engage with landowners and encourage them to manage land in accordance with the objectives for their area - Promote Green Park as a positive case study for its commitment to biodiversity 	Ongoing	Progress report and plan	Berkshire Local Nature Partnership	Thames Valley Environmental Records Centre; RBC; Green Park
T3SP1.9	<p>Encourage groups, individuals and organisations to share ecological data with relevant Research Centres so that this information can be used to inform studies into the effects of climate change on biodiversity</p> <p>Promote smart technologies and applications to increase ecological indicators (http://www.brc.ac.uk)</p>	Ongoing	<p>Annual report from Thames Valley Environmental Records Centre to RBC</p> <p>Update information about applications available to monitor ecological data</p>	Thames Valley Environmental Records Centre	http://www.brc.ac.uk
T3SP1.10	<ul style="list-style-type: none"> - Assess adequacy of control over conversion of front gardens to parking - Align this work to the Royal Horticultural Society's 'Greening Grey Britain' campaign, information on arid and swales planting. 	January 2020	Review of policy to committee with recommendations	Royal Horticultural Society	RBC
T3SP1.11	Raise awareness of the importance of green infrastructure for adapting to climate change and the economic benefits it provides	March 2020	<p>Planning advice</p> <p>Produce a briefing for multi-agency use in publicity</p>	RBC	University of Reading;; Nature Nurture, Reading Outdoor Classrooms

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
T3SP1.12	Assess and seek improvement of waterways, river and canal banks as wildlife corridors	March 2020	Identify improvements to managed areas.	RBC	Environment Agency; Berkshire Local Nature Partnership; Canals and Rivers Trust; Thames Valley Record Centre; Berkshire, Buckinghamshire and Oxfordshire Wildlife Trust
Strategic Priority 2: Encourage local community groups and businesses to become more involved in the management of local green spaces					
T3SP2.1	Sustain and grow local wildlife activities, especially for children	Ongoing	Wildlife community events (Estimated 94 meets in 2012)	Econet; Globe Groups	Connect Reading (businesses); Nature Nurture; Green Trees, Forest School Network; Food 4 Families
T3SP2.2	Encourage teaching about wildlife in schools	Ongoing	Provide training and information for teachers; look at expanding Reading's Outdoor Classroom.	RBC/ other partners	Nature Nurture; Green Trees Education; Conservation Volunteers Berkshire; Food4Families, RISC
T3SP2.3	Highlight and publicise guidance on wildlife gardening with assistance from partners	Jan 2020	- Guidance on website - Establish a channel for local expertise sharing	Econet; GLOBE groups (Oxford Road Community Garden & Ridgeline)	Berks Bucks And Oxon Wildlife Trust; Econet; Green Trees, Royal Horticultural Society; Food4Families

Theme 4: WATER SUPPLY AND FLOODING

A changing climate is expected to mean more extreme weather events such as intense rainfall and floods, heat-waves and droughts. These impacts are predicted to increase over time, with winters getting warmer and wetter, while summers become hotter and drier. Hotter, drier summers will tend to increase demand for water and reduce supply, while more variable winter rainfall may increase the frequency of droughts despite the increase in average rainfall. As well as affecting water supply, this could also have significant impacts on biodiversity and the natural environment.

Action plans will set out measures to adapt to the threats to water supply and the risks of flooding.

Vision by 2020: By 2020, supply and demand for water will be managed so as to improve the projected ‘supply demand balance’, reduce the risks of ‘temporary use bans’ (e.g. hosepipe bans), and reduce the effects on wildlife of poor water quality and of damage to habitat through drought. The risks from changing patterns of rainfall and extreme weather events will be better understood and people will be well prepared with homes and businesses becoming increasingly resilient.

SUMMARY OF STRATEGIC PRIORITIES

- Manage demand for and supply of water, to reduce the expected impact of water shortages on consumers and on wildlife
- Reduce the risk of damage due to flooding
- Develop an adaption plan for Reading so we can plan for extreme events associated with the changing climate

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
Strategic Priority 1: Manage demand for and supply of water to reduce the expected impact of water shortages on consumers and on wildlife					
T4SP1.1 ³	Share understanding of Thames Water's - Water Resource Management Plan	2020	- Make sure Thames Water (TW) understand and factor in Reading's growth estimates - Share the good work TW are doing to factor in	TW	Environment Agency (EA)

³ T = theme; SP = strategic priority

READING CLIMATE CHANGE STRATEGY 2013-2020, ACTION PLAN 2018

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
			climate projections - add links to Reading Climate Action Network (RCAN) website		
T4SP1.2	Ensure plans are in place so that Reading is ready to respond to a drought situation	2020	<ul style="list-style-type: none"> - Make sure drought resilience options are included in TW's Water Resilience plan - Ensure we are planning for droughts that are extreme enough (factoring in climate projections of more extreme future low river flows) * Incorporate learning from EA lead work on 'Water efficiency in the Southeast' 	EA	TW; Reading Borough Council (RBC)
T4SP1.3	Ensure that Reading's Local Plan is compatible with expected availability of water supplies	2018	<ul style="list-style-type: none"> - If funding can be found, do a water cycle study as part of current Local Plan development - Now the 'code for sustainable homes' has gone, follow Greater London Authority (GLA) recommendations for water efficiency (see Table 2.1 and 2.2 of Housing Standards document on .gov.uk) 	RBC	TW; EA
T4SP1.4	Share information with homes and businesses about how to get hold of free water saving devices	2020	<ul style="list-style-type: none"> - Make links from TW to RCAN website - Help to promote at RCAN events 	TW	
T4SP1.5	Incorporate water efficiency measures into RBC internal policies	2020	<ul style="list-style-type: none"> - Arrange meeting with TW water efficiency manager and RBC - Consider learning from Portsmouth & Southampton retrofit case studies 	RBC	TW

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
T4SP1.6	Make sure key organisations in Reading are prepared for the next drought	2018	<ul style="list-style-type: none"> - Communicate the EA 'incident management' approach to managing drought situations with all partners - Run a drought exercise with all partners, Local Resilience Forum (LRF) and key businesses - Consider linking the above with a Heat Wave Alert exercise (e.g. recent Manchester LRF exercise). - Share the learning on RCAN website 	EA	TW; RBC; LRF
T4SP1.7	Share information and case studies to help homes and businesses reduce water use	2018	Add info and links to RCAN website: <ul style="list-style-type: none"> - EA water efficiency guide - TW recommendations for businesses (e.g. staff engagement) - Case studies, e.g. for Clear Water retro fit - TW water saving calculator - TW Water audits for businesses - RBC Carbon Plan - Info from RBC involvement in 'Liquid Assets programme (2006-8)' 	TW	RBC; EA
T4SP1.8	Help to raise awareness amongst homes and business about 'how will a drought affect me?'	2020	<ul style="list-style-type: none"> - Create identifiable case studies - Signpost to EA and TW information on RCAN website - Develop code of conduct when drought is active 	TW	RBC; EA
Strategic Priority 2: Reduce the risk of damage due to flooding					
T4SP2.1	Raise awareness of the EA Flood Warning service	2020	<ul style="list-style-type: none"> - Increase the number of homes and businesses, who are signed-up to receive Flood Warnings, to 70% over the next 3 years - Expand coverage of flood alert/warning service 	EA	RBC

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
			<p>to 100% of properties at risk by 2020</p> <ul style="list-style-type: none"> - Signpost on the RCAN website - Link to advice on flood awareness, flood prevention measures, evacuation guides, and information about the Flood Warning service 		
T4SP2.2	Make sure that all 3 RBC Flood Plans incorporate the latest flood guidance	2018	<ul style="list-style-type: none"> - Confirm that work from Peter Brett, which is looking at revised EA flood guidance, is incorporated into Flood Plan revision (Oct 2017). - Update as appropriate: Flood Water Management Plan, Strategic Plan, and Flood Response Plan. - Consult or request advice from EA as appropriate 	RBC	EA
T4SP2.3	Implement sustainable urban drainage systems (SuDS) in accordance with Planning policies and in delivery of infrastructure	2020	<ul style="list-style-type: none"> - Make sure all applications that need SuDS (which will be automatically triggered by Planning Application System) demonstrate that they have been successfully installed - Monitor the effectiveness of schemes in post-event debriefs - Ensure any learning points are added to appropriate plans 	RBC	
T4SP2.4	Review updated flood maps, which are to be revised from 2018	2020	<ul style="list-style-type: none"> - Add notification to RCAN when they change - Add links to EA flood maps on .gov.uk 'What's in your back yard' - RBC & EA to check if the National Flood Risk Assessment (NARFA) flood bands have changed for homes / businesses in Reading, and communicate as appropriate 	RBC	EA

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
T4SP2.5	Ensure that drainage design is sufficient to allow for increased intensity rainfall in new developments and infrastructure construction/repairs	2020	<ul style="list-style-type: none"> - Make sure new EA guidance has been incorporated in RBC planning policy (e.g. for 20%-40% increase in rainfall intensity) - All new development designed to meet this - Agree target to fix percentage of existing problem areas 	RBC	TW; EA; Scottish and Southern Electricity (SSE)
T4SP2.6	Share advice on being prepared for an incident	2018	<ul style="list-style-type: none"> - Share/signpost link to the "Thames Valley: Are you ready?" booklet on RCAN website - Link this with EA advice (from T4SP3.1) 	RBC	EA
T4SP2.7	Control and minimise development on the floodplain	2020	<ul style="list-style-type: none"> - RBC will apply sequential test to confirm no alternatives are available outside of flood zones - RBC to consult the EA as appropriate 	RBC	EA
Strategic Priority 3: Develop an adaptation plan for Reading so we can plan for extreme events associated with the changing climate					
T4SP3.1	Check environmental monitoring networks (e.g. river flow and rainfall) are fit for purpose, well maintained and producing quality assured data	2018	<ul style="list-style-type: none"> - Create map of monitoring - Publish on RCAN with links to EA/Centre for Ecology and Hydrology 	EA	

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
T4SP3.2	Develop the first iteration of an 'Adaptation Plan for Reading'	2020	<ul style="list-style-type: none"> - Use 'pathways-based' adaptive planning techniques pioneered in the EA (TE2100 and Scenario Testing projects) - Include low flow (drought), surface and fluvial flood, and temperature (e.g. heat wave) indicators - Consider high climate change and growth projections - Plan to 2100 	EA	

Theme 5: TRANSPORT

Every citizen’s choice of transport impacts on climate change, as well as road safety, air quality, and noise pollution. An effective transport system is fundamental to building sustainable and thriving local communities. Reading’s excellent links to national road and rail networks as well as Heathrow Airport, have contributed towards the town becoming a major population and employment centre within the South East. However, the ability to continue to attract inward investment into Reading, while at the same time reducing carbon emissions, depends on efficient management of the transport network as demand for travel grows. The challenge is to minimise transport’s contribution to greenhouse gas emissions, through reducing the need to travel, encouraging the use of more sustainable modes of transport and alternative energy sources, and reducing congestion. The ‘Transport’ theme considers how people move around, including ‘active travel’ such as walking and cycling, public transport such as buses and trains and private transport such as cars and vans. It also reviews the infrastructure that allows people to travel, and the impacts of travel choices not only on climate change, but also on other aspects of the environment.

Vision For 2020: By 2020, we will have achieved targeted and measurable reductions in greenhouse gas emissions from transport and created an infrastructure network which supports and encourages low carbon travel, while improving air quality. Reading will have a healthier and more active population as more people choose to walk and cycle for short journeys whether to the town centre or other local destinations. The transport network will be less congested and safe for cyclists and pedestrians of all ages and abilities. People will use information which is easily accessible and provided in innovative ways to make smarter choices in the way they travel. Public transport will be efficient, reliable and affordable. Low carbon travel will be the preferred choice for people and goods moving around the town. Reading will have a reputation as a beacon for sustainable travel.

SUMMARY OF STRATEGIC PRIORITIES

- Develop and manage a transport infrastructure which supports low carbon travel options
- Reduce energy use and embodied energy in transport infrastructure
- Reduce the air pollution derived from motor vehicles

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
Strategic Priority 1: Develop and manage a transport infrastructure which supports more low carbon travel options					

READING CLIMATE CHANGE STRATEGY 2013-2020, ACTION PLAN 2018

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
T5SP1.1 ⁴	Build pedestrian cycle bridge		Procure, build, monitor use	RBC	Sustrans, landowners
T5SP1.2	Provision of cycle hire scheme	June 2017	Monthly use	Reading Borough Council (RBC)	Various
T5SP1.3	New and upgraded premier cycle routes	Ongoing	New links and new facilities	RBC; Local Sustainable Transport Fund (LSTF) partnership	
T5SP1.4	Support electric vehicle charging	2015	Quarterly usage stats	RBC; business	Car park operators
T5SP1.5	Apply best practice (from around UK) to road layouts	Ongoing during resurfacing programme	Reduction in injury accidents	RBC	
T5SP1.6	Improve pedestrian/cycle facilities at local destinations and local environment	Ongoing	New crossings; cycle stands installed; local area enhancements	RBC; LSTF partnership	Community; business
T5SP1.7	To implement MRT routes in South and East Reading	Ongoing	Increase in public transport usage	RBC	Thames Valley Local Enterprise Partnership
T5SP1.8	To deliver Reading Green Park Railway Station	December 2018	Encourage railway usage, reduce A33 congestion	RBC	Thames Valley Local Enterprise Partnership; Network Rail; Great Western Railway
T5SP1.9	Reallocate road space to public transport and cycling	Ongoing	By road or route	RBC	

⁴ T = theme; SP = strategic priority

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
T5SP1.10	Management of transport related assets	Ongoing	Faults, repair rates, response in extreme weather	RBC	
T5SP1.11	Give appropriate advice for new development to encourage sustainable travel	Ongoing	To be developed	RBC	Developers
T5SP1.12	Develop financial and non-financial incentives to use sustainable travel methods (e.g. challenges, promotions)	Ongoing	Participation, mode shift	LSTF; various	RBC
T5SP1.13	Parking/bus lane enforcement (including camera car)	Ongoing	To reduce illegal usage of bus lanes/parking restrictions	RBC	
T5SP1.14	Promote travel information website and open data server	Ongoing	Measure use and app development	RBC	Media, business
T5SP1.15	Variable Message Signing (VMS) expansion	Complete	Installation of new VMS displays	LSTF partnership	
T5SP1.16	Introduce a 'smart' ticketing system	January 2017	Increase sustainable travel	RBC; Reading Transport Ltd	Various
T5SP1.17	Planned extension of 20mph speed limits/zones as appropriate to local conditions	ongoing	New schemes annually	RBC; Police	
	Improve traffic signal operation		By junction	RBC	
T5SP1.18	Management of transport related assets		Faults, repair rates, response in extreme weather	RBC	

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
Strategic Priority 2: Reduce energy use and embodied energy in transport infrastructure					
T5SP2.1	Expand low energy lighting and control (e.g. dimming)	Ongoing	Monitor energy use	RBC; LSTF partnership	Scottish and Southern Electric (SSE)
T5SP2.2	De-illuminate street furniture	Ongoing	Monitor energy use	RBC; LSTF partnership	SSE
Strategic Priority 3: Reduce air pollution derived from motor vehicles					
T5SP3.1	Extend park and ride	Ongoing	New park and ride southeast, south & west	RBC; Wokingham Borough Council	West Berkshire Council; LSTF partnership and train operating companies, Business
T5SP3.2	Parking management	Ongoing	Restrictions, enforcement by road or route	RBC	
T5SP3.3	Reduce carbon footprint of public transport		Improve Euroclass and increase number of lower carbon buses to fleet	Reading Transport Ltd	
T5SP3.4	Personalised travel planning (arranging travel plan for individuals)		Take customers through questionnaire - conversations held	RBC	Businesses
T5SP3.5	Social media use for travel planning		More reliable journey planning	Community, business	
T5SP3.6	Journey time monitoring system		Journey time reliability	RBC; LSTF partnership	

Theme 6: PURCHASING, SUPPLY AND CONSUMPTION

The purchasing, supply and consumption of goods affects climate change in a variety of ways, both directly through the emissions of greenhouse gases from the manufacture and transport of goods, and more indirectly by affecting the resilience of the town to a changing climate by boosting local supply of products and services and the ‘green economy’. If we are to meet the challenge, all sectors of Reading’s community will need to adopt more sustainable PSC practices and behaviour. This means basing our choice and use of goods and services on maximising benefits to the environment, the economy and society, for both ourselves and the wider community, rather than on a purely private cost-benefit analysis. Over time, the market will respond by offering products that match these preferences. Our consumption of products and food and our business activities also produce waste, which impacts on climate change in numerous ways. ‘Zero waste’ is the process of using all of our waste as a resource for other purposes, thus avoiding land-fill and improving resource efficiency.

Vision For 2020: By 2020, people and organisations in Reading will understand the need for action on climate change and adjust their purchasing, supply and consumption choices accordingly, both individually and collectively. A substantial number of Reading residents and local communities will have made real change to their PSC behaviour, with the results accurately recorded through proven, credible carbon measurement and monitoring techniques. The majority of large (public and private) organisations based in the Reading area, plus a significant number of local small and medium sized enterprises (SMEs) and other small organisations, will have a detailed understanding of sustainable purchasing, supply and consumption principles; they will have formal practice and procedures embedded into their activities. Reading will also have significantly reduced its waste going to landfill, through producing less waste, expanding the market in the recycling and re-use of products, and by generating energy from waste. Surplus material will be viewed as a resource for others to use rather than categorised as waste.

SUMMARY OF STRATEGIC PRIORITIES

- Support and encourage local purchasing and the development of local supply chains
- Promote and encourage new business models focused around the ‘circular economy’
- Develop standards and the commitment to sustainable procurement in both the public and private sectors

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
Strategic Priority 1: Support and encourage local purchasing and the development of local supply chains					

READING CLIMATE CHANGE STRATEGY 2013-2020, ACTION PLAN 2018

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
T6SP1.1 ⁵	Establish a forum for sharing ideas	March 15, then on going	Forum launch	Reading Voluntary Action	Reading International Solidarity Centre (RISC)
T6SP1.2	Gather information on best practice		Publish best practice from delivery group on RCAN website	RBC	
Strategic Priority 2: Promote and encourage new business models focused around the ‘circular economy’					
T6SP2.1	Organise regular seminars on key subjects such as circular economy	Ongoing	First seminar; 1 per annum	RCCP	
T6SP2.2	Establish a group of organisations that have an interest in exploring ‘circular economy’ approaches	Ongoing	Group established	Kyocera Document Solutions (UK) Ltd	
T6SP2.3	Investigate ways of collaborating with other groups that aim to build a sustainable future for Reading	2017		Kyocera Document Solutions/ Reading Borough Council (RBC)	Vibrant Reading, Reading 2050
T6SP2.4	Use networks and variable communication methods to inform /encourage reduction, reuse and recycling, peer- to-peer lending and collaborative consumption	2018	Information made available through web and other media		Sue Ryder; Transition Town Reading; Share & Repair café
Strategic Priority 3: Develop standards and the commitment to sustainable procurement in both the public and private sectors					
T6SP3.1	Explore the potential to develop an accreditation scheme with Reading businesses	Mar 15	Initial feasibility	Kyocera Document Solutions (UK) Ltd	Other champions identified through group

⁵ T = theme; SP = strategic priority

READING CLIMATE CHANGE STRATEGY 2013-2020, ACTION PLAN 2018

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
T6SP3.2	Identify examples/case studies (Reading and beyond) of innovative approaches to waste reduction, recycling and reuse	Ongoing	<ul style="list-style-type: none"> - Sign post case studies in RE3 - Coordinated waste minimisation activities with Re3 staff 	RBC	WRAP; Community sector
T6SP3.3	Nominate commercial and public sector “champions” in Reading area to highlight best practice		Recruit champions in each sector	RBC	Environment Agency, NHS, Kyocera Documents Solutions UK ltd, Connect Reading
T6SP3.4	Develop local diverse, flexible supply chains and work with them to improve environmental standards of procurement		<ul style="list-style-type: none"> - RE-Start Local Project - Work with 60 Small and Medium sized Enterprises to outline public sector opportunities and standards 	RBC	Institute for Sustainability

Theme 7: EDUCATION, COMMUNICATION AND INFLUENCING BEHAVIOUR

Meeting Reading’s targets for minimising the effects of climate change will depend on significant long term changes in everyone’s behaviour across the borough, from individuals and communities to businesses and the public sector. How we behave is determined by many factors, such as our habits, beliefs about how we should behave in a given context (social norms), and cultural expectations, as well as by incentives. Although changing our behaviour and habits can sometimes feel challenging and complex, changing our social norms can have great benefits. This can be demonstrated through the popular growth of initiatives such as fair trade and recycling. These initiatives have developed through the communication of consistent and clear information.

Changes in behaviour will contribute to Reading’s residents adopting more energy efficiency measures. Reading’s workers will need to develop skills in a variety of technical and specialist areas, particularly in the building trade, to enable the development of a ‘green economy’ -from plumbers and builders to architects and chartered surveyors. Education, communication and influencing behaviour can lead on and support action on climate change.

Vision For 2020: By 2020, people and organisations in Reading will understand the reasons for urgent and ongoing action on climate change; we will be aware of what we can collectively achieve and the contribution we can make through our own actions and through influencing others. We will support joined up action on climate change across the public, private and voluntary sectors. People of all ages will be equipped with knowledge and skills that will increase awareness of opportunities within the local ‘green economy’.

SUMMARY OF STRATEGIC PRIORITIES

- Integrate sustainable behaviour promotion and practice throughout schools and colleges, homes, businesses and workplaces
- Raise awareness (with the stakeholders mentioned above), of the range of opportunities, initiatives, successes and challenges relating to climate action across Reading

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
Strategic priority 1: Integrate sustainable behaviour promotion and practice throughout schools and colleges, homes, businesses and workplaces					

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
T7SP1.1 ⁶	<ul style="list-style-type: none"> - Encourage each sector to develop activities to enhance education, communication and behaviour change on climate change - Use opportunities such as funding from RCCP to aid initiatives which support target audiences in taking climate change action - Encourage organisations across the sectors in Reading to become members of Reading Climate Change Action Network (RCAN) and pledge actions on climate change - support them to deliver education and communication outcomes through their action 	Ongoing	Identify opportunities and establish relevant educational resources, activities and support	RCCP	School leads colleges and University of Reading; Workplace employers; landlords, health agencies; RCAN members
Strategic priority 2: Raise awareness (with the stakeholders mentioned above), of the range of opportunities, initiatives, successes and challenges relating to climate action across Reading					
T7SP2.1	- Develop communications messages for the climate change strategy targeted at and tailored to all relevant audiences	Ongoing	<ul style="list-style-type: none"> - Strategy delivered - Communications plan delivered 	RBC	Environment Agency (EA), University of Reading, Reading UK CIC
T7SP2.2	- Engage partners in identifying potential communication channels for the various activities within the strategy and agreeing how these can be utilised	Ongoing	Implement communication strategy with relevant organisations to expand participation	RCCP	EA; University of Reading; Reading UK CIC
T7SP2.3	- Identify and support climate change schemes in the borough that meet the Strategic Priorities of the strategy; help to improve image of	Ongoing	Establish list of schemes and their hosting groups and organisations	RCCP	RBC

⁶ T = theme; SP = strategic priority

READING CLIMATE CHANGE STRATEGY 2013-2020, ACTION PLAN 2018

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
	schemes and enhance uptake				
T7SP2.4	<ul style="list-style-type: none"> - Develop a website to communicate updates on the action plan & actions that are relevant to the strategy aims - Aimed at individuals/groups with existing interest in environment 	On going	Establish list of schemes and their hosting groups and organisations	RBC; RCCP	Strategy theme leads; RBC
T7SP2.5	<ul style="list-style-type: none"> - Build a '...thriving network of businesses and organisations who will be at the forefront of developing solutions for reducing carbon emissions and preparing for climate change....' 	Ongoing	- Establish list of schemes and their hosting groups and organisations	RCCP Board; RBC	
T7SP2.6	<ul style="list-style-type: none"> - Work with the building industry, professional bodies and educational establishments to identify and further develop training or guidance on low-carbon construction and renovation skills - Share existing best practice 	Ongoing	- Inclusion of this target in Economic Growth Plan for Reading 2015-2018 will ensure that report on uptake of training/ apprenticeships in low-carbon construction will be included in reporting for the Economic Growth Plan	RBC; RCCP	RBC; New Directions; Trades Associations; Reading College; Theme leads
T7SP2.7	<ul style="list-style-type: none"> - Encourage businesses and public sector to incorporate environmental sustainability into appropriate job descriptions, identifying appropriate training where needed 	Ongoing	Assessment of senior management jobs at RBC	RBC; RCCP	Theme leads

Theme 8: COMMUNITY

Communities can play a central role in developing a more sustainable way of life that reduces the impact that our lifestyles have on the global climate. This can be achieved through individuals being more self-sufficient, sharing resources, campaigning collectively and through a strong local business community. Working with Reading’s existing strong community sector, including a number of environmental groups, will particularly benefit local action taken on climate change. To reduce our ecological impact, prepare for inevitable climate change and build high quality low carbon lifestyles, we will need to reconsider our interpretation of ‘success’ to include factors relating to our overall quality of life. Our quality of life is dependent on much more than increasing our material wealth, as currently dominates our GDP, but on the contribution of our local environment and our social interactions. To this effect, we should be working towards building sustainable communities.

By 2020, people will have an understanding of how their local environment contributes towards a better quality of life; they will have the commitment and community capacity to support each other to lead more sustainable lives. Reading’s neighbourhoods will be places where success is measured by the uptake of life-styles centred on self-sufficiency, sustainable consumption and sharing of resources. Quality of life will include not only wealth and employment, but will also consider physical and mental health, education, recreation and leisure time, as well as the effects of the built and natural environment on their well-being, and the social attachment they feel. People will be empowered to influence local and national decision makers and businesses through well-developed local networks.

SUMMARY OF STRATEGIC PRIORITIES

- Build community activity relating to sustainable communities
- Build community resilience to climate change: collective and individual
- Reduce consumption by building a ‘sharing economy’

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
Strategic Priority 1: Building community activity relating to sustainable communities					

READING CLIMATE CHANGE STRATEGY 2013-2020, ACTION PLAN 2018

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
T8SP1.1 ⁷	Support groups carrying out activities supporting sustainable communities in Reading to join Reading Climate Action Network	Ongoing	<ul style="list-style-type: none"> - Groups collated in database and invited to join RCAN and apply for grants - reviewed bi-yearly. - Contact maintained through RCAN newsletter, events, and website updates as well as personal contact where they are a deliverer 	- Reading Climate Change Partnership (RCCP) Board Community and Greater Reading Environmental Network (GREN) representative; RCAN support worker	
T8SP1.2	Provide networking opportunities for community and 'environmental' community organisations by improving links between groups contributing to tackling climate change	2020	<ul style="list-style-type: none"> - Support community events - Communications of local news / activity through RCAN website, newsletter, and social media - Promotion of RCAN grants and news stories of successful projects funded by RCAN 	RCCP Board Community and GREN representative; RCAN support worker	<ul style="list-style-type: none"> - Key environmental groups (TBC) - Options include GREN, Transition Towns Reading, Econet, Globe Groups - Reading Voluntary Action (RVA)
T8SP1.3	Investigate approaches to engage wider community on climate change action	2020	<ul style="list-style-type: none"> - Proposal presented- August 2017 - Funds, paid worker and delivery partner in place - Feb 2018 - Program delivery - 2018 - 2020 and beyond 	RCCP Board Community Representative to lead	TBC - approached will be RVA, TTR, GREN, RBC and more
Strategic Priority 2: Build community resilience to climate change: collective and individual					

⁷ T = theme; SP = strategic priority

READING CLIMATE CHANGE STRATEGY 2013-2020, ACTION PLAN 2018

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
T8SP2.1	<ul style="list-style-type: none"> - Build uptake of energy efficiency, renewable energy and energy cooperatives - Engage appropriate asset holders and develop local schemes 	Sept 2014 and ongoing	Seek new opportunities to install renewable energy and food growing	RBC; Reading Community Energy Society; Food4Families	TTR; GREN; RVA; GLOBE groups; Food4 Families; Reading Community Energy Society
T8SP2.2	Communal food growing together and learning; continuation of Food4Families; support allotment and food growing activities	2020	<ul style="list-style-type: none"> - Provision of allotment space in accordance with Allotment Strategy 2011 - Establish 15 Food4Families food growing gardens - Establish networks / events that help promote food growing and local food 	RBC; Food4 Families / Reading Food Growing Network	TTR (orchard and bulk buying sub-groups); organisations with buildings/ grounds
T8SP2.3	Continue with current communal food pilot in Whitley where people can learn about growing food, and develop personal skills	March 2014	<ul style="list-style-type: none"> - Research viability of city farm site in Reading - Focus on referrals where benefits of growing food are closely linked to improving mental health issues 	Green Health Reading	
T8SP2.4	Map and promote a network of accessible self-sufficient community buildings and projects supporting skill development to become more self-sufficient and resilient to climate change	June 2018 and ongoing	<ul style="list-style-type: none"> - Complete mapping exercise of community buildings / projects - Promote facilities / network available through RCAN website via case studies or news stories - Support these projects where possible 	Lead delivery partner sought - RCAN worker; RCCP community / GREN board reps	RVA

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
T8SP2.5	Build householders' and individuals' resilience in a number of ways: growing food, generating energy, insulating homes, planting trees, installing rainwater harvesting and composting food/garden waste	Sept 2014 and ongoing	- Increase numbers of households adopting measures - Design suitable messages / talks to target particular groups of householders - including specific projects	Draught Busters, Reading Sustainability Centre, Reading Food Growing Network	
T8SP2.6	Influence government policy to favour and link local food growers to commercial organisations	Ongoing	Obtain funding, conduct research (surveys)	University of Reading	RISC, Food Growing Network
Strategic Priority 3: Reduce consumption by building a 'sharing economy'					
T8SP3.1	Build and maintain 'share and repair' movement, increasing skills in the community and reducing waste	March 2015 and ongoing	Identify community champion(s) to create new projects	TTR; Reading Repair Café' Reading Bike Kitchen, Reading community and businesses	GREN; RVA
T8SP3.2	Promote 'donating instead of disposing' and 'repair instead of replace' in Reading's business and residential community	March 2016 and ongoing	- Connect Reading: no. of items donated to charities from businesses - Repair Café: no. of items repaired instead of disposed - Reading Bike Kitchen: no. of refurbished cycles (organisations will have their own targets)	Connect Reading; RVA; RCAN	

READING CLIMATE CHANGE STRATEGY 2013-2020, ACTION PLAN 2018

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners
T8SP3.3	Support local economy to explore methods used in UK towns and cities to increase local identity and build number of local businesses	December 2017	<ul style="list-style-type: none"> - Build research group of interested organisations/ individuals - First meeting - Compile independent business directory - Share findings with RCAN for promotion 	Transition Town Reading	
T8SP3.4	<ul style="list-style-type: none"> - Promote Reading's individuality, including its independent businesses and thriving cultural scene - Alt.Reading website: magazine focussing on independents, culture and opinion related to Reading 	<ul style="list-style-type: none"> - Jan 2014 - TBC Ongoing 	<ul style="list-style-type: none"> - Launch website - Continue to bring together all appropriate local activity in one website to promote the non-corporate side of Reading 	Alt.Reading	

APPENDIX 5:

Cleaner Air and Safer Transport Forum - Terms of Reference.

Duties

- To propose measures to improve air quality across Reading Borough
- To evaluate, improve and promote transport sustainability across the Borough
- To influence Council policy and facilitate the development and direction of the Council's sustainability agenda
- To identify and share best practice in relation to clean and green 'healthy streets' initiatives which promote sustainability, healthy living, energy efficiency, sustainable transport and carbon reduction.
- To identify and develop potential low traffic neighbourhoods.
- To promote and raise awareness of sustainable initiatives within the Borough and to promote improved performance across the Council and its partners
- To extend networking to other relevant organisations and to maintain currency of knowledge and information within the context of transport sustainability and climate change matters.
- To make recommendations to the Council on sustainability and climate change matters.
- Support road safety initiatives, particularly for vulnerable road users;
- To discuss progress and delivery of the Cycling Strategy in order to identify, prioritise and optimise actions to meet the objectives of the Cycling Strategy:
 - To improve the cycling environment;
 - To provide better facilities for cyclists;
 - To influence travel behaviour; and
 - To develop skills and capacity.

Governance arrangements:

- The Group will work together to ensure the responsibilities are met. Membership will comprise of officers of Reading Borough Council, community representatives and elected Councillors (see Membership below). The Group is able to co-opt other members onto the group or invite anyone along to the meetings as and when considered necessary and appropriate.
- The Forum will make recommendations to the Council as and when decisions are required It will report the progress of its work.
- The Forum will endeavour to work within and complement existing national and local policy frameworks
- The group will link with other groups both within the community area and across the wider Thames Valley, where this will help deliver its' objectives.

Membership

- Officers and Councillors of Reading Borough Council. An RBC councillor will chair the forum. **(the number of councillors to be determined).**
- Representatives of local community, environmental or transport groups who have a constitution and hold an AGM.
- National interest groups

- A quorum will be 50% of members in addition to the Chair or Vice Chair.
- Members are expected to attend at least 75% of meetings annually.

Frequency

- Meetings will normally be held quarterly. Additional meetings may be scheduled where necessary.

Review

- The Terms of Reference of the Forum shall be reviewed by Full Council at least annually.