

READING BOROUGH COUNCIL

REPORT BY DIRECTOR OF ENVIRONMENT AND NEIGHBOURHOODS

TO:	STRATEGIC ENVIRONMENT, PLANNING AND TRANSPORT COMMITTEE		
DATE:	19 MARCH 2018	AGENDA ITEM:	9
TITLE:	READING'S CLIMATE CHANGE STRATEGY 2013-2020; PERFORMANCE REPORT 2017/18		
SERVICE:	SUSTAINABILITY CORPORATE POLICY	WARDS:	ALL
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1.0 EXECUTIVE SUMMARY

- 1.1 The report outlines the progress made to date on the delivery of Reading's Climate Change Strategy, the progress against the Borough emissions target and also sets out the scale of the challenge to become 100% clean energy by 2050.
- 1.2 The latest government data available shows that Reading met its 2020 emissions target 5 years early, having reduced its carbon dioxide emissions by 38% since 2005. This is the 17th highest performance out of 418 UK local authorities.
- 1.3 The latest Climate Change Strategy monitoring report shows that 74% of actions currently have a 'green or amber' delivery status, with 11% 'red' (and 15% 'purple' - for possible future consideration).

2.0 RECOMMENDED ACTION

- 2.1 To note the progress that has been made in the delivery of the Reading Climate Change Strategy 'Reading Means Business on Climate Change', and the local carbon dioxide emissions reductions.
- 2.2 That the committee continue to support the Partnership in the delivery of the Reading Climate Change Strategy actions insofar as they are attributed to the Council.

3.0 BACKGROUND

- 3.1 The Climate Change Strategy for Reading 2013-2020 (Reading Means Business on Climate Change), was developed through extensive stakeholder consultation and launched in Sept 2013.
- 3.2 The strategy sets out a vision for Reading for 2020, with low carbon being the norm in 2050. It proposes a target for the Borough as a whole to reduce emissions by 34% by 2020 (against a 2005 baseline).
- 3.4 The strategy also presents a set of strategic priorities which form the framework for the actions within each of the eight themes of the strategy:
 - Energy Supply
 - Low Carbon Development
 - Natural Environment
 - Water Supply and Flooding
 - Transport
 - Purchasing, Supply and Consumption
 - Education, Communication and Influencing Behaviour
 - Community
- 3.5 'Theme leads' from a range of partner agencies (including the Council) volunteer to monitor the delivery of each theme chapter, in consultation with stakeholders.
- 3.6 Detailed action plans, setting out how the strategic priorities will be delivered by partners, were published in November 2013. These include specific targets, measures and milestones for each action. The action plans constitute a three year rolling programme and are reviewed annually. The latest review has been part of the more comprehensive review of the strategic priorities at the mid-point of the strategy (2017) (see section 7).
- 3.7 Performance on the delivery of the action plans (position at the end of March 16) was last reported to SEPT Committee in November 2017.
- 3.8 Although the action plans detail delivery by a range of organisations, a significant number of actions are being delivered by the Council. The Council's delivery within the strategy is generally embodied in existing Council policies such as the Carbon Plan, Local Transport Plan, Core Strategy and Biodiversity Action Plan.
- 3.9 As part of the strategy, Reading Climate Action Network (RCAN), a wider network of organisations, businesses, communities and individuals, was also launched in September 2013. Members of RCAN seek to establish ways to meet the targets and aspirations of the

strategy, committing to one of a number of possible challenges, including reducing their emissions by 7% a year. Initially, two meetings were held per annum, although due to resource constraints, the last event was held in 2015.

- 3.10 In December 2015, the UK, alongside 195 other nations, agreed to sign the global Climate Agreement in Paris. The agreement seeks to reduce emissions to limit global warming by two degrees, with an ambition to seek to limit it to one and a half degrees. The agreement came into force in November 2016.
- 3.11 In line with the commitment made in Paris, the Council became a signatory to the UK100 Clean Energy Pledge. To date, 79 other local authorities in the UK have signed the pledge. An extract of the pledge is shown 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.

4.0 READING'S CARBON FOOTPRINT

- 4.1 The total emissions from the whole borough of Reading in 2015 were 38% less than in 2005, and 42% less per head of population. This is the largest percentage reduction of any borough in Berkshire, the 4th highest reduction reported in the Southeast (of 74 authorities) and the 17th highest reduction of the 418 UK authorities.
- 4.2 Figure 1 shows the progress made in reducing emissions against the target. Despite emissions rising in some years prior to 2013, they have reduced in each of the three years to the most recently reported in 2015. The target set out in the Reading Climate Change Strategy was to reduce to 34% below 1990 levels by 2020.
- 4.3 Emissions in each of the years can be seen to be below the linear reduction target line. The 2020 target was met in 2015, five years ahead of the target date.
- 4.4 Figure 2 shows the projections to 2050 of progress to date compared to the current target projection. An approximation of the UK carbon budgets is also shown (1-5), with the 1990 baseline assumed to be 15% higher than the 2005 baseline (there is no local data before 2005). The last point shown is the 80% reduction in 2050.
- 4.5 The carbon budget line can be seen to join the current target projection line in 2032. It should be noted that there is not, as yet, a 6th carbon budget and therefore the level stays the same on the graph for the next 18 years. The current target projection does not go low enough to meet the 2050 target of 80%.

4.6 If progress continues at the current rate (%), it could be possible to achieve 80% reduction in emissions. There is a growing consensus, however, that complete decarbonisation of western economies will be needed in order to meet the aims of the Paris Accord to reduce warming to at least 1.5°C below pre-industrial levels.

Figure 1

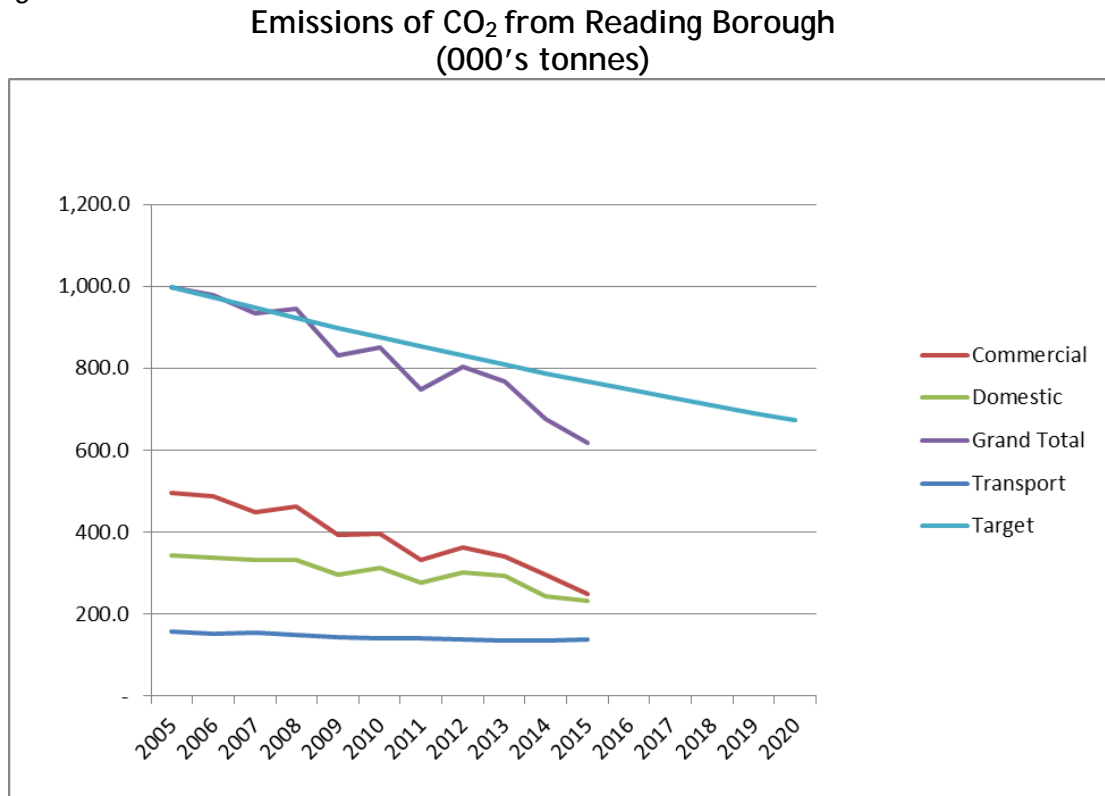
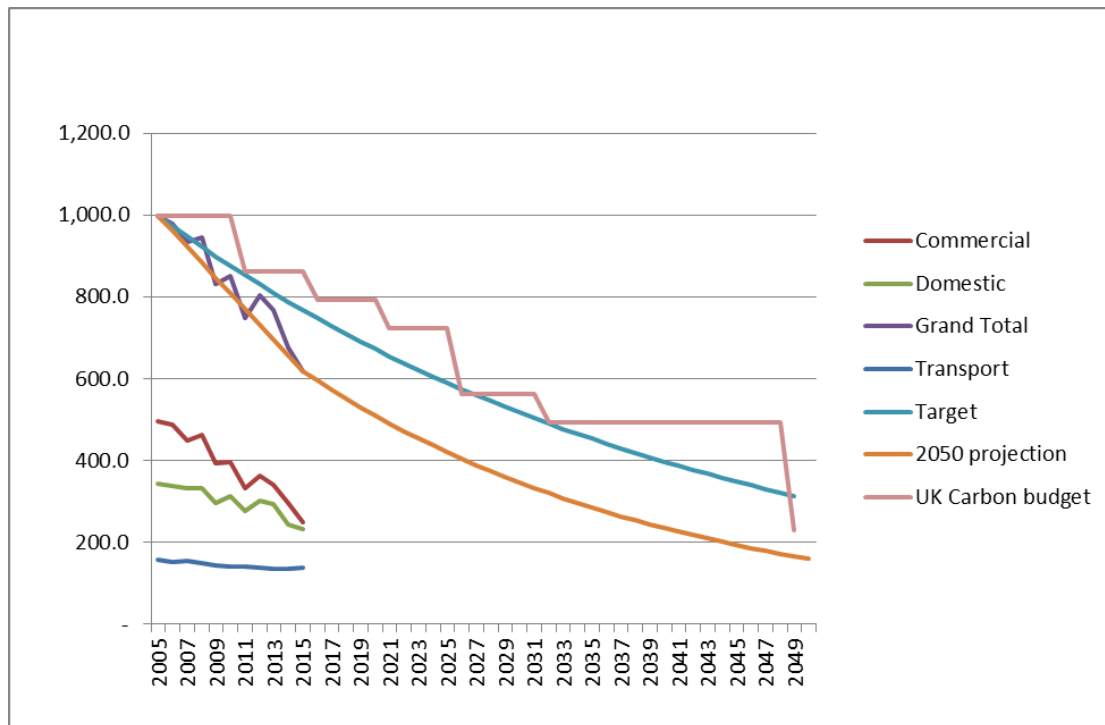


Figure 2

**Emissions CO₂ from Reading Borough Projected to 2050
(000's tonnes)**



5.0 PATHWAY TO CLEAN ENERGY

- 5.1 Reading is a signatory to UK100, which is a pledge to aim to become 100% clean energy by 2050. Over 80 LAs in the UK have now signed the pledge.
- 5.2 The pledge is in recognition of the objective set out in the Paris 2015 Climate Accord to limit global warming to less than 1.5°C above pre-industrial levels.
- 5.3 Carbon emissions in Reading are falling ahead of target. This is due to a number of factors, including improved technologies, building standards and management and control of emissions. A significant factor in this reduction is also the reduced carbon intensity of grid electricity.
- 5.4 Analysis carried out by Reading Borough Council demonstrates that if a very ambitious programme of energy efficiency was carried out in Reading, energy consumption could be reduced by just over 50% by 2050, reducing the requirement for clean energy generation in order to cover Reading's needs.
- 5.5 The scenarios model then seeks to calculate the amount of specific renewable energy installations that can be achieved and seeks to identify if it would meet the needs of Reading.
- 5.6 Whilst the study 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 in the decades to come.

- 5.7 The study shows that there is potentially considerable renewable heat potential from water source heat pumps, utilising Reading's rivers, alongside ground source heat pumps and bio-methane gas from local food waste and sewerage anaerobic digestion. This could supply a large proportion of the town's heat
- 5.8 Renewable electricity generation would be largely provided by solar panels. A considerable increase in the prevalence of this technology would mean the majority of roofs in the borough would have solar panels installed.
- 5.9 However, there is 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.
- 5.10 Renewable electricity and heat are treated separately as electricity can be transported through the national grid network. Heat has a limited capability to be transported and therefore generation and heat use must be closely matched. Heat also has a more significant seasonal variation.
- 5.11 By aiming for 100% clean energy, the assumption is that little or no electricity which has fossil based generation can be imported via the national grid. This does not mean that Reading would be 100% supplied by its local renewable energy generating facilities, although local storage facilities would seek to maximise the locally generated energy for local use. This local energy could be stored alongside nationally generated zero carbon electricity, which it is anticipated would be available at certain times when UK demand falls below the generation capacity.

6.0 **PROGRESS AGAINST STRATEGY ACTION PLANS - WINTER 2017/18**

- 6.1 The current monitoring position shows progress towards achieving the actions set out in the original theme action plans (rather than those that have been amended as part of the mid-term review (see section 7)). This therefore sets out final progress against the 'original' Climate Change Strategy. The first performance monitoring against the revised action plans will be reported to the July 2019 committee.

- 6.2 A RAGP (red/amber/green/purple) status¹ has been allocated to the actions in each theme action plan. The table below summarises the proportion of each type of action.

Figure 3 - Progress against actions within the Climate Change Strategy action plans at Winter 2017/18.

<i>Theme</i>	<i>red</i>	<i>amber</i>	<i>green</i>	<i>purple</i>
Energy Supply	0	6	13	0
Low carbon development	4	11	3	4
Natural environment	5	4	7	1
Water supply and flooding	2	6	7	2
Transport	0	6	18	0
Purchasing, supply and consumption	1	7	5	8
Education, Communication and Influencing Behaviour	5	8	3	1
Community	0	3	4	7
<i>Total (150)</i>	<i>17</i>	<i>51</i>	<i>60</i>	<i>22</i>
<i>%age</i>	<i>11%</i>	<i>34%</i>	<i>40%</i>	<i>15%</i>

- 6.3 There is limited information available on the progress for the 'community' theme, as the lead for the theme is new to the role.
- 6.4 The table shows that 40% actions are 'green' and 74% 'green' or 'amber'. This compares with 49% green and 75% either amber or green at the last reporting in March 2016. The full monitoring reports for each theme can be found at Appendix A.
- 6.5 The Council is responsible for the delivery of 92 of the 150 actions within the monitored action plans. The table below summarises the proportion of 'red', 'amber', 'green' and 'purple' for actions for which Reading Borough Council is the lead deliverer.

Figure 4 - Progress against actions within the Climate Change Strategy action plans at Winter 2017/18, for which Reading Borough Council is the lead delivery agent

¹ **Red** = significant issues with either delivery or resourcing
Amber = work progressing or due to progress but delayed/ not to original timescale; issues but not significant
Green = complete or no issues and on time
Purple - actions which are a good idea, but which are not yet developed or resourced

<i>Theme</i>	<i>red</i>	<i>amber</i>	<i>green</i>	<i>purple</i>
Energy Supply	0	3	11	0
Low carbon development	4	9	2	4
Natural environment	2	2	4	1
Water supply and flooding	1	3	4	0
Transport	0	6	15	0
Purchasing, supply and consumption	0	3	4	4
Education, Communication and Influencing Behaviour	0	4	2	1
Community	0	0	2	1
<i>Total (92)</i>	<i>7</i>	<i>30</i>	<i>44</i>	<i>11</i>
<i>%age</i>	8%	33%	48%	12%

6.6 **81% of Council led actions are being delivered (green and amber).** The majority of these are on track ('green'). This compares with 80% of Council actions in March 2016.

6.7 The following projects are particular successes to date:

- Solar panel installations were completed on 10 community buildings by Reading Community Energy Society - installing 184kWp (~750 panels).
- The first community benefit project was delivered at the JAC (Just Around the Corner) Centre, installing air source heat pumps.
- Reading's community Hydro project received planning permission.
- A grant from the Climate Change Partnership made re-useable cups available to Reading's independent coffee shops.
- The LED street-lighting project was rolled out, replacing all lanterns in the borough with LED lamps. This is due for completion in March 2018.
- The fleet of CNG buses was expanded, reducing the per passenger carbon emissions further. A greater number of passengers was also recorded on Reading buses.

Delivery Constraints

- 6.8 A number of actions have been designated 'red' (significant issues with delivery) or 'purple' (actions which are a good idea, but which are not yet developed or resourced) (11% red and 15% purple).
- 6.9 In many cases these actions were subject to government policy changes. In 2015/2016, some significant changes were the abolition of the zero carbon standards (which is detailed further in the legal section) and the scrapping of the Green Deal. The removal of these policies significantly weakened the ability of local areas to reduce carbon emissions from their building stocks. Since this occurred, Reading Borough Council, alongside a number of other Local Planning Authorities, included zero carbon standards into their Local Plan. This will not come into force until 2019 but, if the policy is upheld by the inspectorate, it will create the policy framework that is needed to reduce emissions arising from Reading, in line with carbon targets.
- 6.10 In addition, the Council has had to make substantial savings in its budget. Accordingly, the Council has had to reduce its support to the Reading Climate Change Partnership board and the associated 'Reading Climate Action Network' (RCAN) activity. Despite this reduction in resource, the Council is responsible for the delivery of 92 of the 150 actions outlined in the strategy and continues to support the delivery of these actions and the running of the partnership and RCAN within its available resources. The partnership has established a modest resource to support their activities.
- 6.11 The 'red' and 'purple' actions have therefore been considered by the Reading Climate Change Partnership Board and have been reviewed as part of the mid-term review of the strategy and strategic priorities (see section 7). It was decided that where the delivery of an action is beyond the partnership's control and no progress is being made, that the action would become 'purple', but that all purple actions will be appended to the strategy to ensure that they are retained in the event that delivery can be secured in the future.

7.0 MID-TERM REVIEW OF STRATEGY

- 7.1 When the strategy was launched in Sept 2013, we committed to undertake a mid-term review, to look in particular at whether the strategic priorities and action plans are still current and relevant.
- 7.2 The has review involved discussions with theme leads over a number of months in 2016/17, followed by a public consultation in May/June 2017, with nine responses received.
- 7.3 In general, the review has involved streamlining the strategic priorities (SPs); the Green Deal SPs have been removed and adaptation SPs added; SPs relating to waste and recycling have been removed, as these actions sit within the Council's waste management strategy. Appendix B sets out the old and new SPs.

7.4 Changes in response to the consultation are now being made and the final version of the strategy and revised action plans is due to be published in the summer.

8.0 CONTRIBUTION TO STRATEGIC AIMS

8.1 The Council has made a commitment to lead in tackling climate change in Reading, adopting the 2013-2020 Climate Change Strategy.

8.2 The Council's Corporate Plan sets out the following Service Priorities:

- Safeguarding and protecting those that are most vulnerable
- Providing the best life through education, early help and healthy living
- Providing homes for those in most need
- Keeping the town clean, safe, green and active
- Providing infrastructure to support the economy
- Remaining financially sustainable to deliver these service priorities

8.3 The Climate Change Strategy sets out its strategic priorities, which feed into all of these service priorities, in particular through protecting those vulnerable to fuel poverty and in creating a low carbon economy and infrastructure fit for the future.

9.0 COMMUNITY ENGAGEMENT AND INFORMATION

9.1 Extensive stakeholder engagement, including two very well attended workshops, influenced the development of 'Reading Means Business on Climate Change' from the outset. Four meetings of 'RCAN' have also taken place since its launch. Community initiatives are supported through the provision of grants to support activities which help to deliver the Reading Climate Change Strategy.

9.2 A draft of the strategy was published for public consultation on 1st November 2012, running for six weeks until December 14th and was extended to February 2013.

9.3 The action plans were open for public comment via RGBN and RCAN websites (www.RGBN.org.uk and www.readingclimateaction.org.uk) in Autumn 2014. Responses have been considered as part of the annual review of the action plans.

9.4 A further consultation process was run to seek views on the proposed revision to the Reading Climate Change Strategy in 2017.

10.0 EQUALITY IMPACT ASSESSMENT

- 10.1 The implementation of Reading Means Business on Climate Change and associated carbon reductions benefits Reading's population as a whole by helping to mitigate the effects of climate change, as well as benefiting some sections of the population more specifically e.g. the education and skill level of those living and working in Reading will need to be raised in order to meet the demands of an expanding 'green economy'; this will enable people generally to play a fuller part in a more cohesive society.
- 10.2 Support is given to those who are struggling to afford their fuel bills through the Winter Watch project. Grant assistance is provided through the Green Deal's ECO funding, to enable those in fuel poverty who find it difficult to heat their homes to be able to afford work such as insulation so that their homes produce fewer emissions as well as being warmer.

11.0 LEGAL IMPLICATIONS

- 11.1 The Climate Change Strategy is a key policy adopted by the Council and the partnership is a 'theme partnership' of the Local Strategic Partnership.
- 11.2 Nationally, legal obligations in respect of climate change are incorporated into legislation through a range of regulations set out under the Climate Change Act 2008. The Reading Climate Change Strategy does not set out any specific binding actions in relation to these regulations but offers a multi-organisation framework which constitutes the proposals for the Borough to assist in meeting the national carbon budgets.
- 11.3 The low carbon development chapter sets out the intended course of action for planning policy development and obligations relating to the National Planning Policy Framework and the Building Regulations.
- 11.4 A significant change of policy was made by the government as a result of the housing standards review by a ministerial statement in 2015 which abolished the Code for Sustainable Homes. A Government paper after the 2015 general election also signalled that the intention to implement Zero Carbon Homes through a revision to the Building Regulations would be abandoned. Until any such revision, transitional arrangements that allow Reading to continue to apply the energy standards up to code level 4 in line with existing policies continue to apply. The strategy placed significant reliance on the Zero Carbon approach and therefore a number of failures to deliver are reported against the action plan in this chapter.
- 11.5 The Fuel Poverty in England Regulations 2014 set out the intention for all homes in the UK to reach the EPC standard of C by 2030. The Energy Efficiency (Private Rented Property) (England and Wales

Regulations) sets out the requirement for private rented properties to meet the standards from 2018.

- 11.6 The Heat Network Metering and Billing Regulations 2014 places obligations on the supply and sale of heat in buildings. This places obligations on the suppliers of heat, including notifying the government of potential sites.
- 11.7 Whilst a number of initiatives and investment proposals will be incorporated in the Climate Change Strategy action plan, the obligations relating to the Energy Performance in Buildings Regulations, Carbon Reduction Commitment, Energy Efficiency Regulations and Energy Act are specifically addressed in the Carbon Plan 2015. This sets out the specific actions that the Council is intending to make in relation to its use of energy and fuel in its own estate operations.
- 11.8 The Home Energy Conservation Act and Energy Act set out the obligations on the Council to make provisions and plans to improve the energy efficiency of the housing stock within its area of control. This included stating the intended course of action in relation to the Green Deal (The Government's policy on retrofitting of buildings for energy efficiency). The Council published its updated HECA report in March 2015. The Green Deal has since been scrapped however, although the Energy Company Obligation will continue albeit with less funding.

12.0 FINANCIAL IMPLICATIONS

- 12.1 The action plans set out the actions that the Council and/or other partners will make to deliver the strategy. Actions for which the Council are the named lead delivery body have only been included where they have been identified as deliverable within the existing budget framework of the Council. In many cases actions depend on national policies that have yet to be passed into legislation.
- 12.2 The responsibility for climate change policy is held by the Strategic Environment, Planning and Transport Committee. The action plans are reviewed annually, and the committee will approve any changes to ensure that delivery is consistent with the Council's policy and budget frameworks. Should amendments to the action plans require additional resourcing, beyond the existing budget framework then the revisions will need to be approved by full Council.
- 12.3 The financial implications of the delivery of the Council's actions in relation to energy management form a key element of the financial savings programme of the Council. Annual energy bills amount to around £4m including schools. This annual revenue expenditure is predicted to rise beyond inflation and therefore it is important to

maintain investment and operational control on energy and fuel to enable significant reductions in energy consumption.

12.4 The delivery of the Council's actions in relation to energy management forms a key element of the financial savings programme of the Council. The Carbon Plan sets out the investment approach for the period 2015-20.

13.0 BACKGROUND PAPERS

13.1 The full theme performance reports are presented at Appendix A

Theme 1: ENERGY SUPPLY

Strategic Priority 1: Reduce electricity and gas consumption within the commercial and public sectors

Strategic Priority 2: Introduce smart meters and energy storage solutions in Reading

Strategic Priority 3: Develop heat supply networks to deliver low carbon heat in Reading

Strategic Priority 4: Increase amount of energy generated locally using renewable technologies

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure	Key issues	RAG status ¹
T1SP1.1 ²	Produce report identifying the commercial and public sector electricity consumption in Reading and identifying key opportunities for energy efficiency	Summer 2015	Report	Reading Borough Council	University of Reading (Technologies for Sustainable Built Environment Centre)	Complete	Lack of data on end uses. Limited up to date local data.	Amber
T1SP1.2	Develop and support a group of organisations to invest in their own energy efficiency programmes	Sept 2015	Meeting of group	Reading Borough Council	University of Reading, Thames Water, large retail stores	Group met Dec 16	Specific action plans not produced	Amber

¹ Red = significant issues with either delivery or resourcing

Amber = work progressing or due to progress but delayed/ not to original timescale; issues but not significant

Green = complete or no issues and on time

Purple = actions which are a good idea, but which are not yet developed or resourced

² T = theme; SP = strategic priority

APPENDIX A - READING CLIMATE CHANGE STRATEGY 2013-2020, ACTION PLAN PERFORMANCE MONITORING, WINTER 2017/18

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure	Key issues	RAG status ¹
T1SP1.3	Council Energy Plan Programme - corporate buildings and new Civic Refurbishment project	2013-2016	<ul style="list-style-type: none"> • Civic refurbishment project 2014 • Low energy Street lighting 2013 to 2016 • Re-Fit building refurbishment project phase 1 2015 to 2017 	Reading Borough Council	Public sector group	<ul style="list-style-type: none"> • New Civic delivered. Solar Housing delivered. • Programme reviewed - Reading Borough Council carbon plan launched. • New whole borough LED street lighting project underway, due to complete April 2018. Building Energy Efficiency Programme in process - 4 strands - compliance, Community Hubs, Leisure Review and accommodation. 	All aspects of programme delivered or being progressed.	Green
T1SP1.4	Continue to offer schools support on energy efficiency and renewable energy investment. School expansion project to include solar panels	2016 to 2020	<ul style="list-style-type: none"> • Issue SALIX finance to 3 schools per annum • Encourage uptake of SEELS (SALIX energy Efficiency Loans) funding for 	Reading Borough Council	Reading Schools	Partially met - Support provided to schools for investment but SLA discontinued due to lack of uptake and removal of		Amber

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure	Key issues	RAG status ¹
			schools. • Expansions complete to energy efficient standards			schools from Carbon Reduction Commitment. SALIX projects delivered in a number of schools and more projects in pipeline. Project to connect TREND to remote monitoring underway.		
T1SP2.1	Produce a model that identifies where electricity loads in buildings can be reduced at peak periods.	Dec 2014	Engineering Doctorate Thesis with Technologies for Sustainable Built Environment Centre	Reading Borough Council	University of Reading. T.S.B.E. centre.	Thesis completed		Green
T1SP2.2	Raise awareness of benefits of smart meters for households and businesses	December 2015	Publicity on smart meters by 2015	utility companies	Reading Borough Council	SSE have information on website	Protocol issues on initial meters - functionality limited.	Green
T1PS2.3	Encourage and increase the number of smart meters and other resource monitoring/ saving devices installed in buildings and other energy/resource using facilities across Reading	March 2014	Source resources to deliver messages year 2	Reading Borough Council	University of Reading	Reading Borough Council and University of Reading have both installed - Further stages of investment progressing. RBC updating staff	Configuration of data systems to connect to smart metering and enable effective analysis and energy management.	Green

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure	Key issues	RAG status ¹
						on use of power during peak periods (Triad warnings)		
T1SP3.1	Identify planning sites that are suitable for decentralised energy networks. Implement policy to incorporate district energy into appropriate planning sites.	March 2015	Shortlist of suitable sites identified.	Reading Borough Council, Thames Valley Energy	Climate Berkshire	Sites being identified. Funding from Government for feasibility on Council site. UoR completed district heating system. Kenavon Drive phase 1 incorporates network elements. New funding awarded in 2016 for heat mapping and master planning for Reading Station area. BEIS funded Heat mapping now completed. A further application for master-planning phase underway.	Substantial infrastructure planning implications	Green
T1SP3.3	Develop district energy projects in Reading amongst partners.	September 2015 March 2016	Initial report on options for specific sites. Business	Reading Borough Council	Private sector	Report produced in BEIS study includes business planning		Green

APPENDIX A - READING CLIMATE CHANGE STRATEGY 2013-2020, ACTION PLAN PERFORMANCE MONITORING, WINTER 2017/18

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure	Key issues	RAG status ¹
			planning for sites or private sector driven through planning/investment.			and IRR estimates etc. Work will continue if further funding granted.		
T1SP3.4	Disseminate information about complete district energy schemes	March 2016	University of Reading scheme	University of Reading	Reading Borough Council	UoR Sustainability Services are developing a new website which will include detail on district heating and energy more generally	<p>energy data available online, https://sites.reading.ac.uk/sustainability/energy-data/whiteknights/whiteknights-energy-centre/</p> <ul style="list-style-type: none"> • provide regular tours of the Energy Centre • currently working with the Association of University Directors of Estates (AUDE) blog article about future heat networks, and are providing information to BEIS in support 	Amber

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure	Key issues	RAG status ¹
							of the development of the HNIP funding for district heating	
T1SP4.1	Create a renewable energy deployment strategy for group of businesses and public sector organisations	March 2014	Produce report for end March 2014	Thames Valley Energy	Reading Borough Council	Target needs slight revision and joining to 4.3 but renewable energy evidence base work complete. EU funded Project including business and public sector organisations submitted Nov 2017.	Resource pressure	Amber
T1SP4.2	Deliver Reading Borough Council 'Carbon Plan'	March 2014	Report to Strategic Environment, Planning and Transport committee March 14	Reading Borough Council		Launched at Strategic Environment Planning and Transport Committee July 15	All elements Progressing	Green
T1SP4.3	Produce a renewable energy investment strategy to provide 8% of local power, identifying most investable renewable energy in borough, making	<ul style="list-style-type: none"> • Sept 2014 • April 2015 • October 	<ul style="list-style-type: none"> • Evidence Base complete • Workshops with partners • Report to Reading Climate 	Thames Valley Energy	Reading Borough Council	See 4.1; 2 stakeholder workshops held; evidence complete, but further work	Resource pressure - work on UK100 will provide this.	Amber

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure	Key issues	RAG status ¹
	consideration of solar photovoltaics, solar thermal, ground source heat pumps, wind, anaerobic digestion, biomass and gasification processes, and hydro power.	2015	Change Partnership			progressing to finalise strategy		
T1SP4.4	Deliver Council Energy Plan Programme - Renewable energy projects - includes Photovoltaic Solar panels and biomass heating.	March 2016	<ul style="list-style-type: none"> • 1st Biomass project March 2014 • Solar photovoltaic on housing Aug 2014 	Reading Borough Council	Reading Sustainability Centre	<p>Solar Housing project completed. 1100 kWp installed on 457 houses.</p> <p>Biomass - Cedar Court site operational.</p> <p>Reading Community Energy Society launched and further 183kWp installations underway.</p>		Green
T1SP4.5	Work with small businesses to encourage uptake of renewable energy	September 2014	5 x Re-Start Local events, 60 businesses 12hrs assistance	Reading Borough Council, Institute for Sustainability	Thames Valley Energy	<ul style="list-style-type: none"> • 124 businesses have received support on Re-Start project • Achieved 72 businesses at 12 hours assistance level. 		Green

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure	Key issues	RAG status ¹
T1SP4.6	Build local supply chains for technologies by building local skills and engaging local companies in larger contracts	September 2014	6 x Re-Start Local events, 60 businesses 12hrs assistance	Reading Borough Council, Institute for Sustainability	Thames Valley Energy	As above	As above	Green
T1SP4.7	Identify local and inward investment options for renewable energy development	Sept 2015	Identify investment routes for projects identified in 4.3.	Reading Climate Change Partnership	Reading Borough Council	Reading Community Energy Society launched and share offer exceeded available solar projects.		Green
T1SP4.8	Encourage local communities and businesses to support the development of renewable energy in their communities	July 2014	<ul style="list-style-type: none"> Identify potential buildings and locations. Identify interested parties Provide technical advice to interested groups 	Reading Borough Council	Reading Voluntary Action, Greater Reading Environmental Network, Transition Town Reading	Working closely with Reading Sustainability Centre Hydro scheme - support given for feasibility. Also Reading Community Energy Society launched 2016.		Green
T1SP4.9	Create a number of community showcase facilities in Reading and run tours	March 14	Identify potential buildings, RISC solar and Green Park wind turbine, To identify others	Reading Borough Council	Reading International Solidarity Centre, Green Education	<ul style="list-style-type: none"> Green Park turbine tours RISC publicise their solar panels 	Need to communicate these sites; include in comms plan	Green

Theme 2: LOW CARBON DEVELOPMENT

Strategic Priority 1: Buildings in Reading to be built to high standards of energy efficiency incorporating on-site renewable energy where possible

Strategic Priority 2: Retrofit energy efficiency measures into Reading's buildings

Strategic Priority 3: Improve properties to reduce fuel poverty in Reading

Strategic Priority 4: Enable uptake of Green Deal and associated grants in Reading

Strategic Priority 5: Monitor and minimise the 'embodied carbon' incorporated into construction projects

Strategic Priority 6: Continue to develop planning policies that:

- support the reduction of green-house gas emissions directly and indirectly from the borough
- reduce the risks of climate change on the communities of Reading

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner (s)	Other delivery partners	Progress against target and measure (Winter 17/18)	Key issues	RAG status ³ (Winter 17/18)
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	September 2017	Establish planning policies that encourage: <ul style="list-style-type: none"> • high FEE (Fabric Energy Efficiency) • Low carbon heating • Renewable energy 	Reading Borough Council		Target timescale for Local Plan delayed to 2019 but draft will be a 'material consideration' for new development.	Draft Local Plan includes higher standards for FEEE including BREEAM Excellent for large non-residential development and a custom 'Zero Carbon Homes' standard for large residential developments. Policy CC4 requires consideration of DH and CHP	Amber

³ Red = significant issues with either delivery or resourcing

Amber = work progressing or due to progress but delayed/ not to original timescale; issues but not significant

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner (s)	Other delivery partners	Progress against target and measure (Winter 17/18)	Key issues	RAG status ³ (Winter 17/18)
							but there is nothing in the Local Plan specifically to mandate low carbon heating or renewable energy - but they will be addressed in response to requirements for BREEAM and Z-CH.	
T2SP1.2	Attract low carbon developments to Reading that adopt high standards of energy efficiency such as Minergie or Passive House	March 2015	Actively engage with developers about demonstration homes to gauge market interest	Reading Borough Council		No evidence of progress. RBC Sustainability Team had asked planning and development control to be aware of this.		Red
T2SP1.3	Research and investigate potential for 'Community Energy Fund' ahead of zero carbon standards	September 2015	Report with recommendations about implementing scheme.	Reading Borough Council		Element Energy Report (2012). RBC has studied proposals being put forward in London and included in draft Local Plan.	Subject to Local Plan being found 'sound' by Inspector. More detail needed in SPD.	Amber
T2SP1.4	Implement a local allowable solutions 'Community Energy Fund' to take advantage of allowable solutions locally; implement planning policies that require its use by developers who are not able to establish sufficient on site measures to reduce carbon emissions to zero	March 2016 dependant on building regulations and planning policy developments	Implementation of fund mechanism	Reading Borough Council	Climate Berkshire	Proposals in Draft Local Plan for local 'offsetting' fund.	Details pending revision of Supplementary Planning Document in 2018. Focus of fund will be on retro-fit on hard-to-treat properties. Question of degree to which proposed developer financial	Amber

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner (s)	Other delivery partners	Progress against target and measure (Winter 17/18)	Key issues	RAG status ³ (Winter 17/18)
	carbon through Fabric Energy Efficiency						contributions will actually offset emissions from new build properties should be kept under review.	
T2SP1.5	Ensure local construction complies with the zero carbon regulations.	March 2016	Proposal to SEPT	Reading Borough Council		Proposals in Draft Local Plan for local 'Zero Carbon' standards.	Government has withdrawn proposed Zero Carbon regulations. Depends on adoption of Local Plan and SPD. Reading's proposed standards are higher than building regulations but new build will still require significant energy inputs.	Amber
T2SP1.6	Establish whether national data can be used to create a local public register of Energy Performance Certificates in the Borough - to track progress and to celebrate success	September 2015	Identify software options, restrictions and costs	Reading Borough Council		Data now available F.O.C. but not yet downloaded and analysed. Considering as student project or at Berkshire level.	Lack of staff resource and low priority - not seen as essential.	Amber
T2SP2.1	Make guidance available for householders and businesses on retro-fitting renewable energy and energy-saving technologies, including technologies and financial assistance	Six monthly reviews	<ul style="list-style-type: none"> Regularly updated web pages Information and links on RCAN Active publicity campaign 	Reading Climate Change Partnership		There is some information for organisations but little for individuals. No recent progress.	Discussions re change to website platform to allow information to be posted by RCCP Board as well as staff.	Amber

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner (s)	Other delivery partners	Progress against target and measure (Winter 17/18)	Key issues	RAG status ³ (Winter 17/18)
T2SP2.2	Review performance of Reading homes as shown by the Private Housing Condition Survey and use information to target energy saving activity and action.	Ongoing	Completion of Home Energy Conservation Act (HECA) report.	Reading Borough Council	Housing associations and landlord groups	HECA report last reviewed March 2015. 2017 report delayed but now in draft.		Amber
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 2015	<ul style="list-style-type: none"> Establish specific show homes in Reading through volunteers and/or where funding available. Possible link to heritage open days. 	Reading Borough Council	Superhomes network, Reading community groups	One privately-owned Superhome was opened to public in 2017.	RBC aware of some examples showing benefits but lack resource to collate and publish information.	Red
T2SP3.1	Provide personalised 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 subsidies and other services/funding available.2 .	Ongoing until March 2017	<p>Continue Winter Watch initiative.</p> <ul style="list-style-type: none"> 2 x staff available to provide service Reach at least 100 households in need 	Reading Borough Council	Energy companies and switching services	<p>Winter watch visited 258 residents between 1 April 2016 - 31 March 2017 providing cost effective measures to keep safe and warm through the winter months including accessing ECO funding.</p> <p>Winter watch working closely with the Private Sector Renewals team.</p>	<p>Staff reduced to 1 but working all year round.</p> <p>ECO2 now focuses primarily on loft and cavity wall insulation. Winter Watch to liaise with the Energy savings trust and sign post low income private tenants for home improvements to improve the energy efficiency of the property.</p>	Green

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner (s)	Other delivery partners	Progress against target and measure (Winter 17/18)	Key issues	RAG status ³ (Winter 17/18)
T2SP3.2	Provide switching/energy bills advice service for those struggling to afford to heat their homes.	Ongoing	Continue Winter Watch initiative	Reading Borough Council	Energy companies and switching services	Winter watch provides advice to every resident about switching suppliers. The length of time it takes and the benefits of doing so. Have now introduced a guide to switching which will make the process easier		Green
T2SP3.3	Improve standards of empty homes and seek to re-occupy	Annual	<ul style="list-style-type: none"> • Continue Council Tax premium for long term empty properties • Annual report on empty homes progress 	Reading Borough Council		Insulation works are not being progressed as part of this scheme		Purple
NEW T2SP3.6	Prepare for mandatory Minimum Energy Performance Standards from April 2018 (applies to rented properties)	September 2015	Propose policies to encourage early adoption and enforce compliance	Reading Borough Council			Government has published guidance at www.cedr.ec/4lm	Red
T2SP4.1	Establish a contracted Green Deal Energy Company Obligation provider in Reading; contract to include local employment, high quality of specified works, high customer standards and finance as needed	March 2016	Develop proposals for ECO funded schemes that also incorporate social benefit	Reading Borough Council	Housing associations, other Berkshire Authorities	RBC was working to establish a networked heating contract with MITIE but stopped early April 2015. Action abandoned	.	Purple

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner (s)	Other delivery partners	Progress against target and measure (Winter 17/18)	Key issues	RAG status ³ (Winter 17/18)
T2SP4.4	Monitor and review up-take of Green Deal and Energy Company Obligation funding through government statistics or if not available from the major provider(s) in the area	annually	<ul style="list-style-type: none"> • Number of participants at each stage • Funding allocated • Annual energy saving due to Green Deal Energy Company Obligation 	Reading Borough Council	Green Deal contracted party	Action abandoned because Green Deal abandoned and ECO severely cut back.		Purple
T2SP5.1	Identify suitable research to identify case studies of mechanisms to estimate embodied energy/carbon in new development	March 2015	Identify case studies.	??		RICS have published "Whole life carbon assessment for the built environment"	Should obtain and review studies and link from RCAN website. Need to ensure this is covered in revised SPD	Amber
T2SP5.2	Identify the carbon costs of development for life-time carbon when submitting planning applications	March 2017	Planning policy review	Reading Borough Council	Reading Borough Council	No progress - not expected until SPD revised	RICS have published a relevant document which RBC could mandate in Sustainable Development SPD.	Amber
T2SP5.3	Develop policies that stipulate energy and sustainable design solutions that are appropriate to the density and location of buildings	March 2017	Review of planning policy documents.	Reading Borough Council	University of Reading	Draft Local Plan Policy CC6 addresses accessibility issues.	Energy implications of density not addressed in draft Local Plan - for large housing developments will arise in planning to meet Zero Carbon Homes requirement.	Amber

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner (s)	Other delivery partners	Progress against target and measure (Winter 17/18)	Key issues	RAG status ³ (Winter 17/18)
T2SP6.2	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	Sept 2015	Produce report	Reading Borough Council		Energy officer looked at Care Homes in summer 2014 but no evidence of recent progress.	Need evidence of assessment plan to cover both RBC and privately-owned care homes. 'Heatwave National Action Plan' and Southern Health 'Heatwave Plan 2017' are relevant but need evidence that they are being acted upon.	Red

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner (s)	Other delivery partners	Progress against target and measure (Winter 17/18)	Key issues	RAG status ³ (Winter 17/18)
T2SP6.3	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)	On-going - six-monthly report	10% increase in canopy cover target from Tree Strategy Evidence of CC-aware planning for shade	Reading Borough Council	Tree wardens	Tree planting by the Council 2016-17: <i>Highways</i> 95 <i>Housing</i> 14 <i>Parks</i> 32 <i>Schools</i> 20 <i>Total</i> 161 Reading Tree Wardens planted 4 trees at Emmer Green Recreation Ground and 12 trees at Palmer Park in 2016/17. In 2017/18 expect to plant 20-25 in Hartland Road, Whitley trees (details as yet to be discussed) in Hartland Road, Whitley.	Lack of evidence of planning for shade. RBC has target of 10% increase in canopy cover by 2030 - propose to review progress in 2018.	Amber

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner (s)	Other delivery partners	Progress against target and measure (Winter 17/18)	Key issues	RAG status ³ (Winter 17/18)
T2SP6.5	Research 'green roofs and walls' to inform specific policies and make available guidance on their costs and benefits for developers, planners and public 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	March 2017	Planning policy review	Reading Borough Council		No evidence of progress in original timescale.	Existing SDPD Policy DM1 addresses green roofs and tree planting. Draft Local Plan mentions planting in EN18, CR2 and CR10. Neither document refers to guidance or standards to ensure the right decisions are taken.	Purple
T2SP6.6	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 Reading Climate Change Partnership to Local Plan	Reading Climate Change Partnership	Local Enterprise Partnership Climate Berks	RCCP were consulted on Issues and Options in February 2016. Intend to seek comments on Pre-Submission Draft Local Plan.	RCCP should seek to comment on all stages of draft Local Plan.	Green

Theme 3: NATURAL ENVIRONMENT

Strategic Priority 1: Improve the quality and connectivity of natural habitats

Strategic Priority 2: 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	Progress against target and measure (Winter 17/18)	Key issues	RAG status ⁴ (Winter 17/18)
T3SP1.1 ⁵	Review the Reading Biodiversity Action Plan and update the plan to take account of climate change	2015	New Biodiversity Action Plan in 2015	Reading Borough Council		Yet to be reviewed.	Resourcing required	Purple
T3SP1.2	Monitor the proportion of Local Wildlife Sites in positive conservation management in line with government guidance on Single Data List 160	ongoing	<ul style="list-style-type: none"> All Reading Borough Council sites to be in positive conservation management by 2015 Reading Borough Council to encourage other 	Reading Borough Council	Other landowners as appropriate	On track; progress reported in the Annual Monitoring Review.		Green

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⁵ T = theme; SP = strategic priority

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure (Winter 17/18)	Key issues	RAG status ⁴ (Winter 17/18)
			landholders to manage their sites					
T3SP1.3	Keep under review, in light of climate change science: <ul style="list-style-type: none"> • Tree Strategy • Orchard Project • Open Spaces Strategy • Thames Parks Plan • Reading Waterspace - A Vision for the Thames and Kennet' 	Sept 2014	Status report. Progress report on each project annually.	Reading Climate Change Partnership	Reading Borough Council	Tree Strategy is being progressed.	Resourcing to monitor strategy	Amber????
T3SP1.4	Identify areas of grass land of highest habitat value and manage as meadow	March 2014	<ul style="list-style-type: none"> • Staff training / awareness days • Statement about grass cutting policy on website 	Reading Borough Council	Private individuals and volunteer groups	Management of conservation grass areas contracted out.	Grant will run out in 2023	Green
T3SP1.5	Help facilitate the work of the Berkshire Local Nature Partnership in respect of Reading sites.	Ongoing	Input to Berkshire Local Nature Partnership	Reading Borough Council	Berkshire Local Nature Partnership		Lack of resource other than that from Council	Amber
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	Reading Borough Council	Thames Valley Environmental Records Centre,	On track - ongoing		Green
T3SP1.7	Periodically update the Berkshire phase 1 habitat map	2018	Periodic review approx every 5 years, next due circa 2018	Thames Valley Environmental Records Centre	Reading Borough Council	Last update completed in 2014. Next one due in 2018		Green

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure (Winter 17/18)	Key issues	RAG status ⁴ (Winter 17/18)
T3SP1.8	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	December 2013	Progress report and plan	Berkshire Local Nature Partnership	Thames Valley Environmental Records Centre, Reading Borough Council	This is not being resourced.		Red
T3SP1.9	Encourage groups, individuals and organisations to share ecological data with Thames Valley Environmental Research Centre so that this information can be used to inform studies into the effects of climate change on biodiversity	Ongoing	Annual report from Thames Valley Environmental Records Centre to Reading Borough Council	Thames Valley Environmental Records Centre		Report by Thames Valley Environmental Records Centre		Green
T3SP1.10	Assess adequacy of control over conversion of front gardens to parking	March 2014	Review of policy to committee with recommendations	Reading Friends of the Earth	Reading Borough Council	No progress - proposed postponement.		Amber
T3SP1.11	When reviewing management plans for public land ensure green infrastructure is considered as well as other physical and social issues; consider management plans with involvement of partners	Sept 2014	Produce checklist for key green infrastructure considerations to be applied to high profile sites. Action needs to be reviewed - currently delivered through SDPD.	Reading Borough Council		No checklist but planning policy framework makes certain requirements for trees and other green infrastructure.	Due for review	Amber

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T3SP1.12	Raise awareness of the importance of green infrastructure for adapting to climate change and the economic benefits it provides	March 2014	Produce a briefing for multi-agency use in publicity.	Reading Borough Council	University of Reading, Reading Friends of the Earth	No progress reported although possible use of RCAN website for this		Red
T3SP1.13	Assess and seek improvement of waterways, river and canal banks as wildlife corridors	March 2014	Identify improvements to managed areas.	Reading Borough Council	Environment Agency, Berkshire Local Nature Partnership, Canals and Rivers Trust.	The Core Strategy sets out the framework. There are some specific management plans for certain sites - e.g. Kennet Island, A33	East Reading Mass Rapid Transit (MRT) proposed public transport link between central Reading and the proposed Thames Valley Park P&R site will mean loss of wildlife corridor	Red
T3SP1.14	Assess and seek improvement of railways as wildlife corridors	March 2014	Identify activity through existing management plans.	Network Rail	Berkshire Local Nature Partnership	No progress	No local advocate identified Consultation on electrification of west coast main line - no net loss in biodiversity - RBC have put some proposals in place	Red
T3SP2.15	Sustain and grow local wildlife activities, especially for children	Ongoing	Wildlife community events	Econet, Globe Groups	Connect Reading (businesses)	Dee Park Catalyst Housing have run at		Green

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			(Estimated 94 meets in 2012)			Louse Hill Copse		
T3SP2.2	Encourage teaching about wildlife in schools; provide training and information for teachers; look at expanding Reading's Outdoor Classroom	March 2014	Produce action plan	Reading Borough Council	Berks, Bucks And Oxon Wildlife Trust, Econet	626 outdoor lessons in 14/15 693 in 15/16		Green
T3SP2.3	Provide guidance on wildlife gardening with assistance from partners	March 2014	Guidance on website. Establish a channel for local expertise sharing	Econet, GLOBE groups (Oxford Road Community Gargen & Ridgeline)	Berks Bucks And Oxon Wildlife Trust, Econet	No progress received		Red

Theme 4: WATER SUPPLY AND FLOODING

Strategic Priority 1: Manage demand for and supply of water to reduce the expected impact of water shortages on consumers and on wildlife

Strategic Priority 2: Reduce the carbon footprint of water supply and water heating

Strategic Priority 3: Reduce risks of damage due to flooding

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure (Winter 17/18)	Key issues	RAG status ⁶ (Winter 17/18)
T4SP1.1	Publish and deliver the Water Resources Management Plan	ongoing	Improved 'Supply Demand Balance'	Thames Water	Environment Agency	Last plan produced 2014. Next plan for consultation in 2017		Green
T4SP1.2	Monitor the frequency of occurrence of drought conditions and restrictions on supply	2020	<ul style="list-style-type: none"> • Hosepipe bans less frequent than every 10 years • 'Temporary Use Bans' less frequent than every 20 years 	Thames Water	Environment Agency	Passed their Levels of Service. - Drought Plan - consultation Jan 2017 (fin Autumn 2017)		Green
T4SP1.3	Ensure that Reading's strategic development plans are compatible with expected availability of water supplies	on review of planning policy documents	Approval by Thames Water and Environment Agency	Reading Borough Council	Thames Water, Environment Agency	RCCP met RBC to discuss draft Local Plan. Intention is that more stringent water standard will be incorporated in building regulations (evidence		Amber

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						supplied by Chris Beales via e-mail 11/3/2016). - EA water resources note that there is a lot of uncertainty in growth...so keep Amber - RBC need to go through the Local Plan with EA and TW - With the expected levels of growth the EA should need a Water Cycle Study to be carried out - need to confirm this has been done and check the outcome (early 2017).		
T4SP1.4	Identify key groups of Reading water users for whom supply restrictions may be business-critical and assist them to become more resilient	2015	Identification of key groups	Climate Berks	Local Economic Partnership, Reading UKCIC, Chamber of Commerce, Thames Water, Environment Agency	No update		Purple
T4SP1.5	Reduce demand for water in existing buildings by providing free water saving devices	ongoing	Deployment of devices to building operators	Thames Water		TW are doing this and meeting OffWat targets. - Could they be more ambitious though? - What about retrofits?		Amber

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T4SP1.6	Incorporate water efficiency measures into development control practice and Reading Borough Council policies.	Mar 2016	<ul style="list-style-type: none"> • Incorporation of water efficiency as a priority into planning policy reviews. • Incorporation of water management into Councils policies. 	Reading Borough Council		The Code for Sustainable Homes is going and LAs only need to impliment building regulations. - Need to review this action in light of the above.		Amber
T4SP1.7	Establish joint working approach with Thames Water, the Environment Agency and Reading Borough Council to engage public support to reduce consumption at times of water stress.	Mar 2015	Establish coordination practices	Thames Water	Environment Agency, Reading Borough Council	Need further update. Is RBC in comms plan for the Drought Plan?		Amber
T4SP2.1	Work with Thames Water to educate consumers and property developers to reduce the use of hot water	ongoing annual reporting.	<ul style="list-style-type: none"> • Target water saving actions to include hot water consumption • Report on up-take of measures to reduce hot water consumption 	Reading Climate Change Partnership Behavioural Change Group	Thames Water, Reading Borough Council	EA thinks that TW are working with British Gas on this.		Red
T4SP2.2	Encourage use of low carbon energy sources to heat water - (see Strategic Priority 3 in Energy Supply section)	July 2014	Produce a list of measures for reducing household hot water wastage/consumption.	Reading Borough Council	Reading Borough Council, Thames Water	Action complete but worth revisting.		Green
T4SP2.3	Reduce energy used in water	ongoing	Data submitted to	Thames Water		Need further		Amber

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	supply and sewage treatment		Carbon Reduction Commitment Registry (regulated by Environment Agency)			update...not sure if they report this in their plans.		
T4SP3.1	Issue flood warnings	ongoing	As per Flood Management Programme	Environment Agency	Other principal response agencies	The EA flood warning service is well established and multi agency forums and communication channels exist. Can this action be closed or revisited?		Green
T4SP3.2	Implementation of Council Flood Plan	ongoing	Annual report	Reading Borough Council		The Councils Flood Response Plan is in place with an issue date of Oct 15 and a review date of Oct 17		Green
T4SP3.3	Implement sustainable urban drainage systems (SuDS) in accordance with Planning policies and in delivery of infrastructure	ongoing	Number of new SuDS installed	Reading Borough Council	Developers, Environment Agency (until SuDS Approval Boards take over responsibility)	Tied up systems with the Planning Application system so SuDS should automatically be triggered. However this needs to be reviewed. - Note that there is pressure on RBC staff		Amber
T4SP3.4	Seek to establish resources to conduct a review of the implementation of effective SuDS across borough	March 2014	Audit report on capability	University of Reading	Reading Borough Council, Environment	No update		Purple

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					Agency			
T4SP3.5	Identify properties at risk of flooding and provide advice on resistance and resilience measures	March 2014	Complete survey of users and plan future action	Reading Borough Council	Local Economic Partnership, Reading UK CIC, Chamber of Commerce, Thames Water, Environment Agency	Our properties at risk have been identified. Resistance/resilience measures were offered to those that flooded in 2014 and we offered grants. Advice and signposting is available on our web. - Checking how regularly this info is updated		Green
T4SP3.6	Engage with major utilities, service providers and retailers to gain assurance that essential supplies can be maintained in conditions of flood	March 2014	Action plan to do this prepared and agreed	Reading Borough Council	Thames Water Highways Agency, Local Economic Partnership, Reading UK CIC	Major utilities are being liaised with monthly at the Berkshire Resilience Group which comprises all category 1 and 2 responders under the civil contingencies act. If and when utilities don't play ball we escalate to Chief exec level and gain their input.		Green
T4SP3.7	Ensure that drainage design is sufficient to allow for increased intensity rainfall in new	ongoing	Six monthly report	Reading Borough Council	Environment Agency (until SuDS Approval	No update. - Note that the new EA guidance has been		Red

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	developments and infrastructure construction/repairs				Boards take responsibility)	published. New developments need to plan for 20% to 40% increase in rainfall intensity with climate change		

Theme 5: TRANSPORT

Strategic Priority 1: Develop a transport infrastructure which supports more low carbon travel options for people in Reading

Strategic Priority 2: Reduce energy use and embodied energy in transport infrastructure

Strategic Priority 3: Manage transport infrastructure and services to prepare for climate change

Strategic Priority 4: Encourage non-car travel for all sectors of the population, through targeted advice, incentives and enforcement

Strategic Priority 5: Reduce the air pollution from vehicles

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure (Winter 17/18)	Key issues	RAG status ⁷ (Winter 17/18)
T5SP1.1 ⁸	Build pedestrian cycle bridge	Summer 2015	procure, build, monitor use	Reading Borough Council	Sustrans, landowners	Complete	Third party matters delay programme. Timescale does not include monitor use.	Green
T5SP1.2	Launch cycle hire	Spring 2014	monthly use	Reading Borough Council	Various	Hourbike awarded new contract to manage and maintain cycle hire scheme until 2020 when	Long term viability - sponsorship being sought.	Green

⁷ Red = significant issues with either delivery or resourcing

Amber = work progressing or due to progress but delayed/ not to original timescale; issues but not significant

Green = complete or no issues and on time

Purple = actions which are a good idea, but which are not yet developed or resourced

⁸ T = theme; SP = strategic priority

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure (Winter 17/18)	Key issues	RAG status ⁷ (Winter 17/18)
						the contract will switch to a rolling yearly contract. New locations to be considered by Hourbike and installed in consultation with RBC.		
T5SP1.3	New and upgraded premier cycle routes	ongoing	new links and new facilities	Reading Borough Council	Wokingham and West Berkshire Councils	Development of new National Cycle Network route ongoing. Expected completion Summer 2018. Oxford Road improvements planned for Autumn 2018. A Local Cycling & Walking Infrastructure Plan is expected to be developed Autumn 2018.	Availability of longer term funding. Network Rail delays in delivering Cow Lane improvements have delayed wider improvements to Oxford Road.	Amber
T5SP1.4	Support electric vehicle charging	2015	Quarterly usage stats	Reading Borough Council, business	Car park operators	EV charging points were installed at	Availability of funding	Amber

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure (Winter 17/18)	Key issues	RAG status ⁷ (Winter 17/18)
						Mere oak and Winnersh Park & Ride sites and are proposed as part of numerous developments. Policy levers requiring developers to install electric vehicle charging points are included in emerging Local Plan.		
T5SP1.5	Apply best practice (from around UK) to road layouts	ongoing during resurfacing programme	reduction in injury accidents	Reading Borough Council		Safety schemes and annual resurfacing programme on-going		Green
T5SP1.6	Improve pedestrian/cycle facilities at local destinations and local environment	ongoing	New crossings, cycle stands installed; local area enhancements	Reading Borough Council	Wokingham and West Berkshire Councils, community, business	Technical support awarded by the DfT to develop a Local Cycling & Walking Infrastructure Plan, including prioritised list	Availability of longer term funding Delays to Network Rail programme have impacted on delivery of improvements	Amber

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure (Winter 17/18)	Key issues	RAG status ⁷ (Winter 17/18)
						of improvements. Pedestrian & cycle improvements included in West Reading and Oxford Road Studies.	along Oxford Road.	
T5SP2.1	Expand low energy lighting and control (e.g. dimming)	ongoing	monitor energy use	Reading Borough Council	SSE	Swap out to LED lighting progressing well and on track for completion in Spring 2018.		Green
T5SP2.2	De-illuminate street furniture	ongoing	monitor energy use	Reading Borough Council	SSE	Decluttering proposals continue to be taken forward as part of wider programmes, including the upgrade of existing illumination to LED or white lighting. Illuminated bollards and signs are being		Green

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure (Winter 17/18)	Key issues	RAG status ⁷ (Winter 17/18)
						replaced by reflective types as they fail or are damaged.		
T5SP3.1	Reallocate road space to public transport and cycling	ongoing	By road or route	Reading Borough Council	Wokingham Council	Road space along the A33 has been reallocated to public transport as part of the construction of the LEP funded South Reading MRT. East Reading MRT was awarded funding by the LEP in Autumn 2017 and a planning application submitted.		Green
T5SP3.2	Improve traffic signal operation	Spring 2015	By junction	Reading Borough Council		Complete	Procurement delays have now been resolved.	Green
T5SP3.3	Management of transport related assets	ongoing	Faults, repair rates, response in extreme weather	Reading Borough Council		Annual programme of resurfacing and repair.		Green

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure (Winter 17/18)	Key issues	RAG status ⁷ (Winter 17/18)
						Additional funding secured from the DfT for potholes.		
T5SP3.4	Give appropriate advice for new development	ongoing	to be developed	Reading Borough Council	Developers	Ongoing Emerging Local Plan expected to be published Spring 2018.		Green
T5SP4.1	Personalised travel planning (arranging travel plan for individuals)	to March 2015	Take customers through questionnaire - conversations held	Reading Borough Council	Businesses	Complete	Business participation	Green
T5SP4.2	Develop financial and non-financial incentives to use sustainable travel methods (e.g. challenges, promotions)	ongoing	Participation, mode shift	Reading Borough Council	Various	LSTF and EMPOWER Programme complete. New funding opportunities continue to be sought to deliver further revenue-based sustainable travel programmes.	Availability of longer term funding	Green
T5SP4.3	Parking/bus lane enforcement (inc. camera car)	ongoing	to be developed	Reading Borough Council		Ongoing		Green

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure (Winter 17/18)	Key issues	RAG status ⁷ (Winter 17/18)
T5SP4.4	Promote travel information website and open data server	ongoing	Measure use and app development	Reading Borough Council	Media, business	Complete		Green
T5SP4.5	Variable Message Signing (VMS) expansion	Complete	Installation of new VMS displays	Local Sustainable Transport Fund partnership		Complete		Green
T5SP4.6	Introduce a 'smart' ticketing system	to March 2015	Increase sustainable travel	Reading Borough Council, Reading Transport Ltd	Various	External barriers prevented the smart card from being launched however other measures were delivered, including a new car club vehicle in Caversham.	Potential for wider integration with other services/ modes dependent upon business cases and commercial agreements between third parties.	Amber
T5SP4.7	Social media use for travel planning	ongoing	More reliable journey planning	Community, business		Complete	Availability of future funding; accuracy of data for journey planning if sourced from third parties.	Green
T5SP4.8	Planned extension of 20mph speed limits/zones as appropriate to local conditions	ongoing	New schemes annually	Reading Borough Council, Police		Eastern area 20mph zone complete. Other 20mph zones are being		Amber

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure (Winter 17/18)	Key issues	RAG status ⁷ (Winter 17/18)
						considered as part of wider packages.		
T5SP5.1	Extend park and ride	March 2015	New park and ride southeast, south & west	Reading Borough Council	West Berkshire and Wokingham Councils, bus and train operating companies, businesses	Mere oak and Winnersh Park & Ride sites operational. RBC developing East Reading MRT with the aim of serving planned park and ride facilities at Thames Valley Business Park. Planning application submitted Autumn 2017.	Subject to planning approval.	Amber
T5SP5.2	Parking management	ongoing	Restrictions, enforcement	Reading Borough Council		Annual SPA programme		Green
T5SP5.3	Journey time monitoring system	2014	Journey time reliability	Reading Borough Council, Local Sustainable Transport Fund partnership		Installation of Bluetooth sensors COMPLETE.		Green

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure (Winter 17/18)	Key issues	RAG status ⁷ (Winter 17/18)
T5SP5.4	Reduce carbon footprint of public transport		Improve Euro class and number of lower carbon buses to fleet	Reading Transport Ltd		35 CNG buses introduced to fleet. 81 no new Euro class 5/6 buses introduced since 2013 Gas fuelling station installed and Reading Bus depot in Great Knollys Street in 2013	CNG fuelling economics improved greatly by installation of CNG fuelling station at Great Knollys Street Air quality also improved greatly due to low NOx emissions from CNG fuel combustion	Green

Theme 6: PURCHASING, SUPPLY AND CONSUMPTION

Strategic Priority 1: Enable people to make sustainable purchasing choices

Strategic Priority 2: Support and encourage local purchasing and the development of local supply chains

Strategic Priority 3: Promote and encourage new business models focused around the 'circular economy'

Strategic Priority 4: Develop standards and the commitment to sustainable procurement in both the public and private sectors

Strategic Priority 5: Increase recycling rates

Strategic Priority 6: Reduce waste by supporting the re-use and repair of products and materials

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure (Winter 17/18)	Key issues	RAG status ⁹ (Winter 17/18)
T6SP1.1	Identify/support best practice champions in key areas	Sept 14	Form a delivery group, recruit champions	Reading Borough Council	Connect Reading	Invitation to become Best Practice Champion posted on the RCAN ¹⁰ website in 2016	Lack of resource to progress this proactively	Purple
T6SP1.2	Gather information on best practice	March 15 then on going	Publish best practice from delivery group on RCAN website.	Reading Borough Council		List of sources of best practice posted on the RCAN website		Green

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¹⁰ Reading Climate Action Network www.readingclimateaction.org.uk

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure	Key issues	RAG status
T6SP1.3	Establish a forum for sharing ideas	Mar 15 then on going	Forum launch	Reading Voluntary Action	Reading International Solidarity Centre (RISC)	Reading Green Business Network (www.rgbn.org.uk) used to provide forums where ideas can be shared. However, security issues means RGBN website is currently closed.	The delivery partners have never committed to this action and RGBN is defunct. We should focus on live events, and consider using another medium for online conversations - eg Linked In or 2 Degrees. Overlap with other projects eg Reading 2050 need exploring.	Purple
T6SP2.1	Publish impartial/ peer reviewed information to guide local purchasing for dissemination.	ongoing	Toolkit developed to support local companies to access public contracts.	Demeter (commissioned by Institute for Sustainability)		Re:Start Local project undertaken with local Small and Medium sized Enterprises, but the report needs to be posted on the RCAN website to be completed.		Amber

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure	Key issues	RAG status
T6SP2.2	Compile information guide identifying the key standards and kite-marks	March 14 March 15	<ul style="list-style-type: none"> • set up initial info source • provide formal guide then update ongoing 	Reading Borough Council	Institute for Sustainability, Energy Savings Trust, University of Reading	Links to completed action (see below). Guide to best practice, labels and standards posted on the RCAN website.	Link is broken and needs repair	Amber
T6SP3.1	Organise regular seminars on key subjects such as circular economy	Sept 14	First seminar; 1 per annum	University of Reading		Food Security and Climate Change event took place on May 23 rd 2016. Energy round table took place in February 2017. Next one is due.		Amber
T6SP3.2	Establish a group of organisations that have an interest in exploring 'circular economy' approaches	September 2014	Group established	Kyocera Document Solutions (UK) Ltd		Circular Economy Group was set up on Reading Green Business Network website, but site is now defunct so this conversation needs another home.	RBC owns database of all businesses engaged in RCCP, but does not currently have the resources to carry out action. Should consider another way of resourcing it. GDPR considerations need urgent attention.	Purple
T6SP4.1	Link up with existing public and business sector initiatives and	Sept 16	First group of businesses and organisations to have	Reading Borough Council	Environment Agency, NHS, Kyocera	Re:Start Local project undertaken with local Small and Medium sized Enterprises	Report need to be published	Amber

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure	Key issues	RAG status
	build on current standards/procedures		produced a Purchasing Supply and Consumption/ Waste Plan		Documents Solutions UK Ltd, Connect Reading	and.		
T6SP4.2	Develop local diverse, flexible supply chains and work with them to improve environmental standards of procurement	Sept 14	RE-Start Local Project. Work with 60 Small and Medium sized Enterprises to outline public sector opportunities and standards.	Reading Borough Council	Institute for Sustainability	Re:Start Local project undertaken with local Small and Medium sized Enterprises and report posted on the RCAN website. This action is COMPLETED		Green
T6SP4.3	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.	Survey prepared for circulation to all companies who have expressed an interest in the Climate Change Strategy, via and Reading Borough Council database.	Responses need to be shared and analysed	Amber
T6SP4.4	Nominate commercial and public sector "champions" in Reading area to highlight best practice	March 15	recruit champions in each sector	Reading Borough Council	Environment Agency, NHS, Kyocera Documents Solutions UK Ltd, Connect Reading	Case studies published on RCAN website. No more have been added since the original 3.	No resource available at RBC to drive this.	Purple
T6SP4.5	Hold collaborative workshops between public and private sector procurers in Reading and other local Council areas to discuss/share	Sept 14	First workshop (annually thereafter)	Reading Borough Council	Business champions	Workshops have been held with suppliers, particularly around reducing travel and energy costs in their operations. Re-Start Local project also carried out workshops and	No resource available at RBC to drive this.	Purple

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure	Key issues	RAG status
	knowledge					drop ins.		
T6SP4.6	Develop financial and non-financial incentives (e.g. challenges, promotions) and competition.	Dec 14	Category award best organisation for Sustainable procurement/waste.	Reading Climate Change Partnership	WRAP		This has not been moved forward. Query over availability of resource, needs to be revisited by the board.	Red
T6SP4.7	Hold joint demand/supply chain events to bring local procurers and SME suppliers closer together pre competition	Sept 14	RE Start Local project	Institute for Sustainability/ Reading Borough Council		3 "Meet the Buyer" events were held for local companies.	Report needs to be published	Amber
T6SP5.1	Continue to seek ways to improve Council collections and apply known best practice	March 15	Review of Council Collections	Reading Borough Council	Re3	Progressed through the Waste Minimisation Strategy 2015-2020.	Review recommends deleting this SP (increase recycling rates) as overlaps with RBC Waste Minimisation Strategy	Green
T6SP5.2	Research/map and validate currently available methodologies and update knowledge	March 15	Set up initial info sources	Institute for Sustainability	Reading Borough Council	No progress	Review recommends deleting this SP (increase recycling rates)	Purple

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure	Key issues	RAG status
							as overlaps with RBC Waste Minimisation Strategy	
T6SP5.3	Disseminate knowledge and best practice in relation to recycling across the Borough to all communities and sectors	ongoing	re3 partnership - integrate into review	Reading Borough Council	Re3	The Waste Minimisation Strategy 2015 -2020 was adopted in March 2015; a key action is to disseminate knowledge and improve understanding of recycling via a communication strategy.	Review recommends deleting this SP (increase recycling rates) as overlaps with RBC Waste Minimisation Strategy	Green
T6SP5.4	Work with businesses to improve the uptake of recycling of trade waste and to collaborate on finding markets for surplus goods and materials	March 14	Town centre recycling cardboard contract	Reading UK CIC	Connect Reading	Town centre cardboard recycling projects and Broad Street Mall food digester already in place. COMPLETE	Review recommends deleting this SP (increase recycling rates) as overlaps with RBC Waste Minimisation Strategy	Green
T6SP6.1	Use networks and variable communication methods to inform /encourage reduction, reuse and recycling, peer to peer lending and collaborative consumption	Sept 14	Information made available through web and other media.	re3 Partnership	Sue Ryder, Transition Town Reading, share & repair café	Summary of resources was posted to RCAN website. New process needed for ensuring that the resource section of the website is kept up to date.		Amber

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure	Key issues	RAG status
T6SP6.2	Identify particular examples/case studies (Reading and beyond) of innovative approaches to waste reduction, recycling and reuse.	March 15	% waste reduction for subsectors of borough to 2018	Reading Borough Council	WRAP, Community sector	The Waste Minimisation Strategy 2015 - 2020 addresses all aspects of waste reduction, recycling and re-use and includes recycling targets for 2017 an 2020 and includes benchmarking and service delivery systems reviews based on best industry practice.	Action should possibly be deleted as covered by RBC Waste Minimisation Strategy	Amber
T6SP6.3	Set up special interest working group to study and report on best practice and innovations.	March 15	form a special interest group, source initial case studies/info 1 year : source resources to deliver messages/seminars year 2	Reading Borough Council		No progress	No resource exists at RBC to drive this.	Purple
T6SP6.4	Promote and disseminate knowledge widely re practical approaches	year 1 and ongoing	% waste reduction for subsectors of borough to 2018	Kyocera		No progress	Lead delivery partner should be reviewed, possibly RBC but currently no resource to drive this.	Purple

Theme 7: EDUCATION, COMMUNICATION AND INFLUENCING BEHAVIOUR

Strategic Priority 1: Further integrate sustainable behaviour promotion and practice throughout schools, colleges, universities, and workplaces

Strategic Priority 2: Ensure that communication which is aimed at influencing climate change related behaviour is delivered in a consistent and targeted way

Strategic Priority 3: Engage organisations in the private sector, including residential and commercial landlords, in effective action to mitigate climate change

Strategic Priority 4: Develop the market for climate change related local business and the skills to ensure that local jobs are created in line with the growing low carbon economy

Ref	Action	Timescale	Target & measure/milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure (Winter 17/18)	Key issues	RAG status ¹¹ (Winter 17/18)
T7SP1.2 ¹²	Encourage each sector to develop plans to enhance education on climate change	July 2014	Identify opportunities and establish relevant educational resources	Reading Borough Council	School leads, Colleges and University of Reading	RCCP supported InterClimate Network to bring their Model Climate Conference to Reading in Nov/Dec 2016 and 2017; 8 schools participated. Brought together local industry, VCSE and Council	RCCP funding being used to stimulate action in schools and other settings is great - it would be good to join this up with the 'pledges' made by	Amber

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Ref	Action	Timescale	Target & measure/milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure (Winter 17/18)	Key issues	RAG status ¹¹ (Winter 17/18)
						initiatives for an 'Ideas and Action Zone' to promote awareness of what's happening locally across the other strands of the CAP (Transport, Water, Environment, Building) and to promote action in schools. Follow-up funding is available to support schools to develop climate action in their school communities.	members of the Climate Action Group, and also link in more with activities under the other strands of this Action Plan..	
T7SP2.1	Develop a media and communications strategy for the Climate Change Strategy targeted at and tailored to all relevant audiences, delivering consistent and relevant messages	March 14	Strategy delivered Communications plan delivered	Reading Borough Council	Environment Agency, University of Reading, Reading UK CIC	Not yet progressed but limited resource now available		Amber
T7SP2.2	Engage partners in identifying potential communication channels for the various activities within the strategy and agreeing how these can be utilised	March 2014	Implement communication strategy with relevant organisations to expand participation	Reading Climate Change Partnership Board	Environment Agency, University of Reading, Reading UK CIC	Follow on from above action	Dependent on communication strategy in action T7SP2.1	Amber
T7SP2.3	Seek agreement through the Local Strategic Partnership	Sept 14	Take paper to Local Strategic	Reading Climate	Environment Agency,	Action outstanding	This action now deleted as part of	Red

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Ref	Action	Timescale	Target & measure/milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure (Winter 17/18)	Key issues	RAG status ¹¹ (Winter 17/18)
	that key partners will identify potential means to communicate messages and/or work in partnership - especially through existing communication channels		Partnership outlining key messages and list of organisations that could disseminate	Change Partnership Board	University of Reading, Reading UK CIC		review	
T7SP2.4	Review membership of the Behaviour Change sub-group and its role in supporting strategy delivery	March 14	Develop programme	Reading Climate Change Partnership Board		It was felt that the Behaviour Change group did not need to re-form until there is a specific target for any research they might carry out	Behaviour Change Group no longer exists	Red
T7SP2.5	Use current available academic research to inform communications for the public and public sector approaches	ongoing	Linked to programme in T7SP2.4	Reading Climate Change Partnership Behaviour Change Group tbc	Reading Borough Council and other public sector organisations	As 2.4	As 2.4	Red
T7SP2.6	Share findings and approach of behaviour change group with community groups and other relevant agencies	March 2014	policy evidence base	Reading Climate Change Partnership Behaviour Change Group		As 2.4	As 2.4	Red
T7SP2.7	Identify and support climate change schemes in the borough that meet the	Sept 15	Establish list of schemes and their hosting	Reading Climate Change	Reading Borough Council	Support from RCCP for existing initiatives eg Climate Voices	Needs to be more consistent and promoted	Green

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Ref	Action	Timescale	Target & measure/milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure (Winter 17/18)	Key issues	RAG status ¹¹ (Winter 17/18)
	Strategic Priorities of the strategy; help to improve image of schemes and enhance uptake		groups and organisations.	Partnership Behaviour Change Group				
T7SP2.8	Define and consider target group(s) who may not take up measures and therefore remain vulnerable to climate change; consider measures that are suitable for these people	Sept 15	Establish a list of key vulnerabilities to Climate Change.	Reading Climate Change Partnership Behaviour Change Group	Education and training providers, Citizens Advice Bureau, Reading Borough Council	As 2.4	As 2.4	Red
T7SP2.9	Promote Reading Local Exchange and Trading Scheme, Time Banking and FREEGLE, to community groups, businesses and residents using existing communication channels Link in with wider communications plan for schemes in action plan.	Sept 14	Year 1 - Research existing activities and raise awareness Develop messaging that encourages use of these schemes.	Reading Borough Council	Reading Voluntary Action, Connect Reading, Partnership between business/community/public sectors	Promotion is happening through other channels but doesn't feel connected into this action plan.	No coherent approach to this but lots of vibrant activity - and new Ethical Reading might be an opportunity.	Amber
T7SP2.10	Build trust and reputation between exchangers to reduce equipment ownership; identify specific examples and share best practice. Publicise through media	Sept 15	Publicity from public sector and community groups, use best practice and share success stories	Reading Borough Council	Reading LETS, Freegle, Repair Cafe and Reading Bike Kitchen	This action has been moved to the Circular Economy strand so no action necessary		Green
T7SP2.11	Develop a website to	ongoing	<i>target needs to</i>	Reading	Theme leads	Admin resource to support		Amber

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	communicate updates on the action plan & actions that are relevant to the strategy aims. Aimed at 'the converted' (not general public)		<i>be developed</i>	Borough Council or RCCP Board??		RCCP has now been identified		
T7SP2.12	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	<i>target needs to be developed</i>	Reading Borough Council or RCCP Board??	RCCP Board organisations	RCCP Board made up of network of businesses	RCAN events can further support if there is admin capacity at RCCP	Amber
T7SP3.1	Develop accessible media options for officers to promote energy efficiency measures and the products available	Oct 2015	Develop accessible media options for officers to promote energy efficiency measures and the products available.	Reading Borough Council		Changes in government offer Green Deal/ ECO, lack of resource to develop targeted campaign.	Action removed as part of review	Purple
T7SP3.2	Work with landlords, lettings and managing agents to ensure minimum EPC compliance and encourage improvements in the sector.	Oct 2015	Produce a web based video. Milestones include developing a storyboard and identifying a	Reading Borough Council	Reading College			Green

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Ref	Action	Timescale	Target & measure/milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure (Winter 17/18)	Key issues	RAG status ¹¹ (Winter 17/18)
			partner to produce the video					
T7SP4.2	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 as part of Elevate Reading	Sept 15	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		Reading UK CIC, Reading Borough Council, New Directions, Trades Associations Reading College	Individual action is being undertaken by a range of institutions	No lead to take it forward coherently	Amber
T7SP4.3	Encourage businesses and public sector to incorporate environmental sustainability into appropriate job descriptions, identifying appropriate training where needed	March 2015	Assessment of senior management jobs at RBC	Reading Borough Council		Individual action is being undertaken by a range of institutions	No lead to take it forward coherently	Amber

Theme 8: COMMUNITY

Strategic Priority 1: Building community activity relating to sustainable communities

Strategic Priority 2: Build community resilience to climate change and self-sufficiency (collective and individual)

Strategic Priority 3: Reduce consumption by building a 'sharing economy'

Strategic Priority 4: Build an 'alternative economy' focussed on quality of life and emphasising sustainable communities

Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure (winter 17/18)	Key Issues	RAG status ¹³ (winter 17/18)
T8SP1.1 ¹⁴	Identify groups carrying out activities supporting sustainable communities in Reading.	June 2014	Establish activity groups through RCAN ¹⁵ with a range of projects/ activities	Reading Climate Change Partnership Board		RCAN meetings on food and energy in 2015 See also action 2.4	RCAN events became unresourced after Nov 2015.	Green
T8SP1.2	Build relationships with 'non-environmental groups'; encourage uptake of sustainable	<ul style="list-style-type: none"> ●Sept 2014 ●June 2015 ●Sept 2015 	<ul style="list-style-type: none"> ● Build relationships in launch year. Trial methods of promotion. ●Design and build campaign 	Reading Climate Change Partnership board	Reading Borough Council, Reading Voluntary Action, Greater	Other groups doing through their campaigns and events - e.g.: <ul style="list-style-type: none"> ● Reading town meal (1st Oct 16) ● Reading Bike Kitchen has 	Promotions through grants is taking place (i.e. presence at Reading Town Meal in October). Climate talks also took place in 2015/16 and	Purple

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¹⁵ Reading Climate Action Network www.readingclimateaction.org.uk

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Ref	Action	Timescale	Target & measure/ milestone	Lead delivery partner(s)	Other delivery partners	Progress against target and measure (winter 17/18)	Key Issues	RAG status ¹³ (winter 17/18)
	community related activities through a 'campaign' or other forms of promotion, in line with actions identified in EBC SP2. design and build and launch a campaign to promote climate friendly activities to 'non environmental groups'		<ul style="list-style-type: none"> Find resources to launch campaign 		Reading Environment Network, Reading International Solidarity Centre, community forums, Reading Climate Action Network members	high profile presence in town, <ul style="list-style-type: none"> RISC - Rdg International festival as well as all year round program of events 	another programme planned for 2018/19 Non Environmental groups difficult to define. Best done as 'guest presenter'	
T8SP1.3	Sustain and improve 'environmental' community organisations by improving links between groups contributing to tackling climate change.	July 2014	Use Reading Climate Action Network (RCAN) to build a two way direct and quality communication between Reading Climate Change Partnership and environmental community groups.	Reading Climate Change Partnership Board	Key environmental groups (TBC), options include Greater Reading Environmental Network, Transition Towns Reading, Econet, Globe Groups	<ul style="list-style-type: none"> RCAN event in 2015 gave info on action updates from community sector mainly; but no events in 15/16 Reading Climate Change Partnership project support fund assisting with building relationships as groups highlight their project for financial support. Supporting Reading Sustainability Centre in kind with hydro project. 	No resource for RCAN events in 15/16 but 2014 target delivered.	Green
T8SP2.1	Build uptake of energy efficiency,	Sept 2014	<ul style="list-style-type: none"> Identify & approach potential asset 	Reading Borough	Transition Towns Reading,	<ul style="list-style-type: none"> Action complete - solar housing project concluded and community solar project 	Reading Hydro group still going, waiting on planning permission from	Green

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	renewable energy & energy co-ops as well as (communal) food growing. Engage appropriate asset holders and develop local schemes.		holders. <ul style="list-style-type: none"> Identify 3 community assets to invest in energy efficiency, food growing and renewables. Seek investment to benefit those who come forward. 	Council	Greater Reading Environmental Network, Reading Voluntary Action, GLOBE groups, Food4 Families,	delivered. <ul style="list-style-type: none"> Food growing activities continuing 	RBC and EA Reading Hydro received planning permission in 2017. Reading Community Energy Society launched 2016.	
T8SP2.2	Communal food growing together and learning; continuation of Food4Families; support allotment and food growing activities	Sept 2014	<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. 	<ul style="list-style-type: none"> Reading Borough Council Food4 Families / Reading Food Growing Network. 	Transition Town Reading (orchard and bulk buying sub-groups); organisations with buildings/ grounds	<ul style="list-style-type: none"> Reading Town Meal ongoing and was crowd funded. Has become an annual event. Food 4 Families ongoing, and are linked to Reading Food Growing Network, and Reading Town Meal. 		Green

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T8SP2.3	Identify potential for a 'showcase facility' (city farm) where local people can learn about the opportunities to grow food, harness natural products and develop skills	March 2014	<ul style="list-style-type: none"> •Complete research into viability of city farm in Reading •Consider report produced and revise action plan accordingly. 	Spring Board		<ul style="list-style-type: none"> • Green Health Reading has a small scale farm / allotment, helping vulnerable. • Spring Board seed funding has ended. 	GHR still wants to deliver a city farm but needs funds and land to do this.	Purple
T8SP2.4	Develop a network of accessible self-sufficient community buildings supporting skill development and providing local food.	June 2014	Complete mapping exercise of community buildings	Reading Borough Council	Reading Voluntary Action	No progress		Purple

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T8SP2.5	Build householders / 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	<ul style="list-style-type: none"> • Increase numbers of households adopting measures • Develop monitoring indicators • Design suitable messages, to target particular groups of householders 	Reading Climate Change Partnership	Reading Borough Council	<ul style="list-style-type: none"> • Awareness event: Reading Climate Forum in Sept 16 • Tilehurst Globe and Caversham and District Residents Association events on energy efficiency in the home. • Generating energy - RBC 457 council homes installed with solar panels. Further number given energy efficiency advice -• High uptake of solar pre-fit in 2016. Reading had 7MWp in 2017 - that's about 28,000 panels. About 8000 owned by RBC. Primarily domestic. 		Green
T8SP2.6	Influence government policy to favour and link local food growers to commercial organisations	TBC	Obtain funding, conduct research (surveys)	University of Reading		No update available yet.		Purple
T8SP3.3	Build 'share and repair' movement, increasing skills in the community and reducing waste	March 2015	<ol style="list-style-type: none"> 1. Establish sharing network 2. Identify community champion(s) 3. Establish list of organisations that can repair and refurbish products 	Transition Towns Reading	Greater Reading Environmental Network, Reading Voluntary Action	<ul style="list-style-type: none"> • Reading Bike Kitchen doing very well. • Monthly Repair Café still going strong. 		Green

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T8SP3.4	Mainstream sharing initiatives in Reading residents / businesses culture	March 2016	Recruit business partners and expand network	Transition Towns Reading / Connect Reading (to be identified)		As 3.3	No progress, or resources.	Red
T8SP4.1	Conduct research into local outlets that would consider trading in a Reading pound to strengthen the local economy	Dec 2014	Complete research project	Transition Towns Reading	Local businesses	No progress	Action needs to be discussed further with the community	Red
T8SP4.2	Support local economy to explore methods used in UK towns and cities to increase local identity and build number of local businesses	<ul style="list-style-type: none"> • April 2014 • June 2014 	<ul style="list-style-type: none"> • Build research group of interested organisations/ individuals (tastecard/ wedgecard/ Bristol £ etc). • First meeting 	Transition Towns Reading	Reading Borough Council, Reading UK CIC Federation of Small Businesses, Reading Voluntary Action (Highbridge exchange / The Real Business Club),	No progress.	Action needs to be discussed further with the community	Red

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T8SP4.3	Rebalance Reading's 'corporate image' ; Alt.Reading website- magazine focussing on independents, culture and opinion of and from Reading.	<ul style="list-style-type: none"> • Jan 2014 • TBC 	<ul style="list-style-type: none"> • Launch website • Compile independent business directory 	Alt.Reading		<ul style="list-style-type: none"> • Alt Reading- website is doing well, • A new facebook group is creating a similar on-line presence 'theDing' 		Green

Reading Climate Change Strategy Review

Key changes to strategic priorities

Current Strategic Priorities (SPs)- 2013 Strategy	Proposed Strategic Priorities -2016/17 Review	Why changes have been made
Energy Supply		
- Reduce electricity consumption within the commercial and public sectors (T1SP1)	- Reduce energy consumption in Reading (T1SP1)	<i>Streamlining of SPs- the four existing SPs have been summarised by the two proposed SPs.</i>
- Introduce smart meters and energy storage solutions in Reading (T1SP2)	- Decarbonise energy supply of Reading (T1SP2)	
- Develop heat supply networks to deliver low carbon heat in Reading (T1SP3)		
- Increase the amount of energy generated locally using renewable technologies (T1SP4)		
Low Carbon Development		
- Buildings in Reading to be built to high standards of energy efficiency incorporating on-site renewable energy where possible (T2SP1)	- Continue to develop planning policies that support the reduction of greenhouse gas emissions directly and indirectly from the borough (T2SP1)	<i>National changes in policy limits what can be achieved in the short term.</i>
- Retrofit energy efficiency measures into Reading's buildings (T2SP2)	- Retrofit energy efficiency measures into Reading's buildings (T2SP2)	<i>No change</i>
- Improve properties to reduce fuel poverty in Reading (T2SP3)		<i>SP3, which related to fuel poverty, has been removed, but its actions have been incorporated into other SPs.</i>
- Enable the uptake of Green Deal and associated grants in Reading (T2SP4)		<i>SP4, which related to the Green Deal, has been removed due to the end of this funding stream from central government.</i>
- Minimise the 'embodied carbon' incorporated in construction projects (T2SP5)		<i>Deleted</i>

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Current Strategic Priorities (SPs)- 2013 Strategy	Proposed Strategic Priorities -2016/17 Review	Why changes have been made
-Continue to develop planning policies that: <ul style="list-style-type: none"> • support the reduction of greenhouse gas emissions directly and indirectly from the borough • - reduce the risks of climate change to the communities of Reading (T2SP6) 		<i>Deleted; first bullet covered T2SP1 Second bullet covered by new T2SP3</i>
	-Develop and implement adaptation measures to reduce the risk of high temperatures (T2SP3)	<i>A new SP3 on adaptation to climate change has been added.</i>
Natural environment		
- Improve the quality and connectivity of natural habitats (T3SP1)	- Improve the quality and connectivity of natural habitats (T3SP1)	<i>No changes to strategic priorities made, but the theme reflects an aim to connect more with local environmental community groups.</i>
- Encourage local community groups and businesses to become more involved in the management of local green spaces (T3SP2)	- Encourage local community groups and businesses to become more involved in the management of local green spaces (T3SP2)	
Water Supply and Flooding		
- Manage demand for and supply of water to reduce the expected impact of water shortages on consumers and on wildlife (T4SP1)	- Manage demand for and supply of water to reduce the expected impact of water shortages on consumers and on wildlife (T4SP1)	<i>No change</i>
- Reduce the carbon footprint of water supply and water heating (T4SP2)		<i>Deleted</i>
- Reduce the risk of damage due to flooding (T4SP3)	- Reduce the risk of damage due to flooding (T4SP2)	<i>No change</i>
	- Develop an adaptation plan for Reading so we can plan for extreme events associated with the changing climate (T4SP3)	<i>New SP</i>

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Current Strategic Priorities (SPs)- 2013 Strategy	Proposed Strategic Priorities -2016/17 Review	Why changes have been made
Transport		
- Develop a transport infrastructure which supports more low carbon travel options for people in Reading (T5SP1)	- Develop and manage a transport infrastructure supporting low carbon travel options (T5SP1)	<i>SPs 1 and 3 combined into the new SP1.</i>
- Reduce energy use and embodied energy in transport infrastructure (T5SP2)	- Reduce energy use and embodied energy in transport infrastructure (T5SP2)	<i>No change</i>
- Manage transport infrastructure and services to prepare for climate change (T5SP3)		<i>Covered by SP1</i>
- Encourage non-car travel for all sectors of the population, through targeted advice, incentives and enforcement (T5SP4)	<i>Deleted</i>	<i>SP4 considered a sub-action under SP5</i>
- Reduce the air pollution from vehicles (T5SP5)	- Reduce the air pollution derived from motor vehicles (T5SP3)	<i>No change</i>
Purchasing, Supply and Consumption		
- Enable people to make sustainable purchasing choices (T6SP1)	- Support and encourage local purchasing and the development of local supply chains (T6SP1)	<i>SPs 1 and 2 have been combined.</i>
- Support and encourage local purchasing and the development of local supply chains (T6SP2)		<i>Merged with SP1 above</i>
- Promote and encourage new business models focused around the 'circular economy' (T6SP3)	- Promote and encourage new business models focused around the 'circular economy' (T6SP3)	<i>No change</i>
- Develop standards and the commitment to sustainable procurement in both the public and private sectors (T6SP4)	- <i>Develop standards and the commitment to sustainable procurement in both the public and private sectors (T6SP3)</i>	<i>No change</i>
- Increase recycling rates (T6SP5)	<i>Deleted</i>	<i>SPs 5&6 have been removed, as these actions are owned and delivered by</i>

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Current Strategic Priorities (SPs)- 2013 Strategy	Proposed Strategic Priorities -2016/17 Review	Why changes have been made
		<i>Reading Borough Council's waste management services* and its waste contractor</i>
- Reduce waste by supporting the re-use and repair of products and materials (T6SP6)	<i>Deleted</i>	<i>As above</i>
Education, Communication and Influencing Behaviour		
- Further integrate sustainable behaviour promotion and practice throughout schools, colleges, universities, and workplaces (T7SP1)	- Integrate sustainable behaviour promotion and practice throughout schools and colleges, homes, businesses and workplaces (T7SP1)	
- Ensure that communication which is aimed at influencing climate change related behaviour is delivered in a consistent and targeted way (T7SP2)		<i>SPs 2 and 4 were considered sub-actions and have been integrated into two wider, more comprehensive SPs.</i>
- Engage organisations in the private sector, including residential and commercial landlords, in effective action to reduce their carbon footprint (T7SP3)		<i>Deleted</i>
- Develop the market for climate change related local business and the skills to ensure that local jobs are created in line with the growing low carbon economy (T7SP4)		<i>SPs 2 and 4 were considered sub-actions and have been integrated into two wider, more comprehensive SPs.</i>
	- Raise awareness [with the stakeholders mentioned above] of the range of opportunities, initiatives, successes and challenges relating to climate action across Reading (T7SP2)	<i>New SP</i>
Community		
- Build community activity relating to sustainable		<i>Consolidation of previous SPs.</i>

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Current Strategic Priorities (SPs)- 2013 Strategy	Proposed Strategic Priorities -2016/17 Review	Why changes have been made
communities (T8SP1)		
- Build community resilience to climate change and self-sufficiency(collective and individual) (T8SP2)	- Build community resilience to climate change and self-sufficiency(collective and individual) (T8SP2)	<i>No change</i>
- Reduce consumption by building a 'sharing economy' (T8SP3)	- Reduce consumption by building a 'sharing economy' (T8SP3)	<i>No change</i>
- Build an 'alternative economy' focused on quality of life and emphasising sustainable communities (T8SP4)		<i>Deleted</i>