

Current and Planned HCC Activity Carbon Mitigation

Project Area	Action	Service delivering	Partners	Co-benefits	Indicators used	Outcome	Funding mechanisms	Delivery start date	Emissions addressed
Transport									
Electrification	4 engagement officers working with general public across Hampshire - attending events, meeting etc to raise awareness of Connect to Support Hampshire contributing to demand management for Adults' Health and Care. To minimise environmental impact these staff use electrical	Adults' health and care/public health	Hampshire Transport Management service	Economic, Brand advertising (on vehicle livery) Raising awareness of positive reputation of HCC Health benefits from reduced air pollution	Coverage and reach during activities Hits on Connect to Support Hampshire Staff satisfaction		Service Budget / Cost of Change	May-19	Both
Electrification	Incentivise use of electrically powered vehicles when technology has advanced to guarantee effectiveness and reliability	Adults' health and care/public health	Hampshire Transport Management service	Increased availability of recharging infrastructure Health benefits from reduced air pollution	Cost effectiveness		Service Business as Usual Budget		HCC
Electrification	ETE department to change all (suitable) diesel vehicles to Electric.	Highways (commissioning)	HTM	Economic, saving in running costs. Health benefits from reduced air pollution.	Measures of cost effectiveness, reduction in fossil fuels, carbon reduction	Adopt an approach where electric vehicles are the first choice providing they are suitable for the task	ETE Rev budgets such as MSS (Staff) Vehicles replaced at end of current lease/life.		HCC
Electrification	Transition Skanska HHSC Operational fleet (3.5T, 7.5T 15T) to electric.	Highways (commissioning)	HTM	Economic, saving in running costs. Health benefits from reduced air pollution.	Measures of cost effectiveness, reduction in fossil fuels, carbon reduction	Adopt an approach where electric vehicles are the first choice providing they are suitable for the task			HCC
Electrification	Transition Skanska company car fleet to hybrid and electric.	Highways (commissioning)	Skanska Head Office	Economic, saving in running costs. Health benefits from reduced air pollution.	Measures of cost effectiveness, reduction in fossil fuels, carbon reduction	Adopt an approach where hybrid and electric vehicles are the first choice providing they are suitable for the task			HCC
Electrification	Look at travel plans for site teams and personnel visiting site or provide electric pool vehicles for members of staff regularly traveling for work.	Highways (commissioning)		Economic, saving in running costs. Health benefits from reduced air pollution.	Measures of cost effectiveness, reduction in fossil fuels, carbon reduction, new technologies used to avoid the need to travel to site	Adopt an approach where electric vehicles are the first choice providing they are suitable for the task			HCC
Electrification	Geotechnic and Land Survey vehicles to change to electric where appropriate (4x4 electric not readily available).	Highways (commissioning)	HTM	Economic saving in running costs Health benefits from reduced air pollution.	Measures of cost effectiveness, reduction in fossil fuels, carbon reduction	Adopt an approach where electric vehicles are the first choice providing they are suitable for the task	Existing budgets		HCC
Electrification	To explore the possibility of introducing an Ultra Low Emission Vehicles scheme across Hampshire County Council (HCC).	HR	Draft paper to be put forward outlining considerations and proposals	The Ultra Low Emission Vehicles scheme would play a key role in contributing to and embedding HCC's Climate Change Strategy as it promotes an environmentally-friendly method of transport which reduces the carbon footprint. It also has financial benefits for both the employee and employer (Tax and NI) as it is administered via salary-sacrifice. It would also form part of an employee's total reward package which may improve levels of engagement and act as a staff retention and motivation tool	Measures include cost effectiveness, reduction in fossil fuels and carbon reduction	If this initiative is approved, expect to see an increase in the number of purchases of ULEV vehicles by staff across the organisation and therefore resulting in lower emissions	HR to liaise with Procurement to complete tendering process and finalise contract (subject to approval of scheme)	Options being developed for consideration	HCC
Electrification	Actively trial and promote new vehicle technology when it arrives on the market e.g. electric minibus	CCBS	County Supplies, Schools	Reduced air pollution	Identification of new types of vehicles and vehicle technologies on the market Trials of promising new types of vehicles and technologies on the market			In progress	HCC
Travel planning	Bid for schemes that enable us to decarbonise transport systems	Strategic Transport	Solent Lep				Solent growth deal		County-wide

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Travel planning (reduced travel)	Review and implement HCC's own Corporate Travel Plan to reduce car alone journeys for both commuter trips and business trips.	Strategic transport	HCC employees, County Councillors, Management, Winchester City Council (WCC), WCC Travel Plan Network, bus operators, train companies, walking and cycling organisations, Public Health external delivery partners such as Liftshare.	Staff attendance, reputation, physical health, mental health, congestion, improved local relations, air quality, life skills, road safety, financial savings (individual and corporate), carbon reduction, viability on local public transport services,	Modal split data, no of people using tools such as Liftshare, sign ups to challenges,	A reduction in carbon from transport for home to work journeys. More active and healthier lifestyles for HCC staff	Internal funds from Transport Planning	2019	HCC
Travel planning (reduced travel)	Through travel planning measures, in both regulatory and voluntary capacity, support residential development, workplaces and schools on the reduction in car alone journeys on Hampshire's roads	Strategic transport	Residents, employees, employers, Development Planning, Developers, County and District Councillors, District Councils, Police, Parish Councils, Bus companies, Train companies, walking and cycling organisations, Public Health, other operators delivering services such as car sharing, car clubs as well as other local organisations such as accessibility groups, voluntary organisations and so on.	Physical health, mental health, congestion, improved local relations, air quality, life skills, road safety, financial savings, carbon reduction, viability on local public transport services, crime reduction, staff attendance	TRICS SAM monitoring, travel surveys, bus patronage, no. of website hits, outputs of no. of activities/events delivered, no. of people liftsharing	A higher take up of voluntary and non voluntary travel plans from Hampshire organisation	Developer contributions or Traded Services (i.e. directly appointed by developers); Workplaces (as a Traded Service), Clean Air Zone funding (DEFRA) Developer contributions (if development includes employment) or Government grants (e.g. DfT or Highways England)	2019	County-wide
Travel planning (reduced travel)	Equipment prescribers to ensure items fully explained and accepted, prior to request Equipment prescribers to order all items for each person together to reduce multiple visits	Adults' health and care/public health	Prescribers	reduced transport pollution, costs and time	Productivity, mileage costs		Business as usual budget		HCC
Travel planning (reduced travel)	Green scheduling of work/jobs to reduce carbon emissions through travel, winter maintenance	Highways (commissioning)	Skanska	reduced transport pollution, costs and time	Measures of cost effectiveness, productivity, reduction in fossil fuels, carbon reduction	Strive for maximum efficiency and productivity by planning routes to avoiding unnecessary travel		2 years	HCC
Travel planning (reduced travel)	First time fix avoid duplicate visits. Also multi-skilled gangs to avoid multiple visits.	Highways (commissioning)	HCC	reduced transport pollution costs and time	Measures of cost effectiveness, productivity, reduction in fossil fuels, carbon reduction	Reduced carbon emissions	self funding		HCC
Travel planning (reduced travel)	Booking service users and carers into community hubs rather than social workers travelling to individual services	Adults' health and care/public health	Libraries	Better community links, and impacts on social isolation	Productivity and mileage		Business as usual budget	May-20	HCC
Travel planning (reduced travel)	Transport and health needs assessment	Adults' health and care/public health	ETE	Health (increased physical activity)			Not funded	In development	HCC
Travel planning (reduced travel)	Work with providers to develop provision according to needs within the Hampshire boundaries.	Childrens' services	Independent providers of placements Hampshire foster carers	Reduction in costs to travel budgets Increase in outcomes for children through greater variety of placements and placements closer to home Health benefits from use of public transport through encouraging walking to get to transport	Contract monitoring with providers Contract tendering activity Reduction in staff travel claim amounts	To reduce the number of children placed outside of Hampshire boundaries by 10% in 2020-21	Existing budgets	May-20	HCC
Travel planning (reduced travel)	Increase the number of in house foster carers, and increase occupancy in the in house residential provision.	Childrens' services	Independent providers of placements Hampshire foster carers	Reduction in costs to travel budgets Increase in outcomes for children through greater variety of placements and placements closer to home Health benefits from use of public transport through encouraging walking to get to transport	Reduction in staff travel claim amounts Increased numbers of fostering households available for placement matching Increased number of children placed with in house carers	68% of children in a foster carer placement will be placed with Hampshire approved foster carers	Existing budgets	Apr-20	HCC
Travel planning (reduced travel)	Consider the climate impact alongside safeguarding when making decisions about placements.	Childrens' services	Independent providers of placements Hampshire foster carers	Reduction in costs to travel budgets Increase in outcomes for children through greater variety of placements and placements closer to home Health benefits from use of public transport through encouraging walking to get to transport	Number of children placed within their town area	To reduce the number of children placed outside of Hampshire boundaries by 10% in 2020-21	Existing budgets	Mar-20	HCC

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Travel planning (reduced travel)	Increase the uptake of the use of pool cars when travelling outside of Hampshire and sharing of vehicles when staff are travelling to the same destination. Increase the use of public transport where possible and safe to do so	Childrens' services	Independent providers of placements Hampshire foster carers	Reduction in costs to travel budgets Increase in outcomes for children through greater variety of placements and placements closer to home Health benefits from use of public transport through encouraging walking to get to transport	Use of Hampshire pool cars by social workers Lower staff travel claims	To contribute towards the Corporate energy reduction plan.	Existing budgets	Sep-20	HCC
Travel planning (reduced travel)	Provide accurate and timely travel information enabling people to vary their travel time, route and mode to minimise congestion	Highways (traffic)	Seimens Mobility	Health (decrease in acute and long term conditions due to poor air quality)			HCC investment required		HCC
Travel planning (reduced travel)	Enhance on-street parking and loading controls to reduce congestion	Highways (traffic)	NSL/District Councils (agents)	Health (decrease in acute and long term conditions due to poor air quality)			HCC investment required, with revenue from enforcement and on-street parking charges		County-wide
Travel planning (reduced travel)	Optimise traffic control assets to minimise stops and delay	Highways (traffic)	Seimens Mobility	Health (decrease in acute and long term conditions due to poor air quality)			HCC investment required		County-wide
Travel planning (reduced travel)	To provide community transport using a minibus for vulnerable older people who need transport e.g. for shopping, Doctors appointments. The communal transport provision reduces the need for individual trips e.g. via taxis	Adults' health and care/public health	CCBS, Hayling Voluntary Services	Reduced social isolation supports independent living			Town and Parish Council Fund Grant for Hayling Voluntary Services £29k		County-wide
Digital enablers	Completing more customer facing tasks on the phone and online	Adults' health and care/public health	IT	Quicker outcomes promoting prevention	Productivity and mileage		Business as usual budget	Apr-21	HCC
Digital enablers	Using technology to route journey.	Adults' health and care/public health	System providers Business Analytics	Increased productivity, costs, reduced wear and tear on fleet	Delivery times Workforce productivity		Business as usual budget	Apr-19	HCC
Digital enablers	Writing in service specifications that providers need to engage with service users through digital means (e.g. sexual health services) reducing the need for travel to clinics	Adults' health and care/public health	Service providers	Health (providing timely care in a way that meets the patient's needs)	Key performance indicators in contracts		Not funded	ongoing	Both
Digital enablers	Provision of Technology Enabled care (TEC) services in people's own homes. Enables the reduction or delay of more intensive Home Care with relies on staff visiting service users at home, therefore a reduction on car/transport usage for staff.	Adults' health and care/public health	Argenti	Reduced use of Home Care, Residential and Nursing care			Service Budget	Ongoing	HCC
Digital enablers	Consider greater use of tele-conferencing to reduce time wasted travelling to/from meetings and vehicle use anyway.	highways (commissioning)	IT	Reduce electricity/fuel costs, more efficient use of staff time at work, congestion benefits, better work life balance.	Measures of cost effectiveness, reduced travel, reduction in fossil fuels, carbon reduction, reduced energy consumption in offices	Reduced carbon emissions	Existing budgets		HCC

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Digital enablers	Consider HCC managed Design working at home to reduce commuting in and out of Winchester.	highways (commissioning)	IT	Reduce electricity/fuel costs, more efficient use of staff time at work, congestion benefits, better work life balance.	Measures of cost effectiveness, reduced travel, reduction in fossil fuels, carbon reduction, reduction in office space needed and associated equipment and maintenance, reduced energy consumption in offices	Reduced carbon emissions	Existing budgets		HCC
Digital enablers	Flexible working practices including teleconferencing, the use of drop-in centres and working from home	adults' health and care/public health		Reduce electricity/fuel costs, more efficient use of staff time at work, congestion benefits, better work life balance.			Not funded	Ongoing	HCC
Digital enablers	Embed a culture of working flexibly through the use of devices, Microsoft Teams, conferencing, Skype etc.	Childrens' services	Independent providers of placements Hampshire foster carers	Reduction in costs to travel budgets Increase in outcomes for children through greater variety of placements and placements closer to home Health benefits from use of public transport through encouraging walking to get to transport	Use of Hampshire pool cars by social workers Lower staff travel claims	To contribute towards the Corporate energy reduction plan.	Existing budgets	Mar-20	HCC
Digital enablers	Using technology including telephone conference calls to enable flexible working whilst reducing emissions and avoiding fossil fuel consumption in travel Using mobile technology as an alternative to home visits	Adults' health and care/public health	Corporate IT	Family friendly employment practices; less reliance of office space	Mileage costs		Business as usual budget	2021	HCC
Active travel	To explore the possibility of introducing a Cycle to Work scheme across Hampshire County Council (HCC). [n.b. Hampshire Fire and Rescue Service and Hampshire Constabulary already have a Cycle to Work scheme in place]	HR	Draft paper to be put forward outlining considerations and proposals	Cycle to Work is a government initiative to encourage cycling as a means of transport to work. It reduces carbon emissions and promotes a healthy lifestyle. It also has financial benefits for both the employer and employee (Tax and NI) as it is administered via salary sacrifice	Measures include cost effectiveness, reduction in fossil fuels and carbon reduction	If this initiative is approved, expect to see a steady increase in the number of staff participating in the scheme and commuting to work by bicycle, rather than by car, train or bus and therefore resulting in lower emissions	HR to liaise with Procurement to complete tendering process and finalise contract (subject to approval of scheme)	Options being developed for consideration	HCC
Active travel	Developing evidence on health benefits of alternatives for transport	Adults' health and care/public health	PH and ETE	Physical health, mental health, air quality, life skills, road safety, financial savings			Not funded		County-wide
Active travel	Active travel to schools including travel audits, transition from early years to primary and primary to secondary. This work is targeted to areas with poor air quality, higher deprivation and higher levels of obesity). Scootability training in schools. Also, the active travel team project to engaged with schools and local businesses (e.g segensworth) around drop-off and pick-up practices through monitoring air quality around the school site	Adults' health and care/public health	ETE, active travel	Physical health, mental health, air quality, life skills, road safety, financial savings			PH funded	ongoing annually reporting	County-wide
Active travel	Supporting active travel team with community travel plans (White Hill and Borden new developments)	Adults' health and care/public health	ETE, active travel	Physical health, mental health, air quality, life skills, road safety, financial savings			PH funded	ongoing	County-wide
Active travel	Encouraging staff to walk or cycle to work use park and ride facilities	Adults' health and care/public health	Facilities Dept, District and Borough parking / traffic management teams	Physical health, mental health, air quality, life skills, road safety, financial savings			Business as usual budget	Apr-19	HCC
Active travel	Work with ETE to provide input into Hampshire's local transport plan and district movement strategies - give advice and guidance on air quality, active travel and health benefits	Adults' health and care/public health	ETE, district councils	Health (increased physical activity)			Not funded	The local transport plan is due for review in 2020/2021	County-wide
Active travel	Develop an active travel topic paper for LTP4 including developing HCC design principles for implementing better walking or cycling schemes.	Strategic transport	Various stakeholders including developers, cycle and walking groups	improved Quality of our cyclign and walking environments	Design Principle agreed, self assessment of new highway schemes and compliance with new principles and or audit of schemes by new Department for transport watchdog	Higher levels of walking and cycling, more active lifestyles and a less carbon intensive transport system	core revenue budgets and external funding opportunities	started	Both

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Active travel	School travel planning and measures (e.g cycle training)	Adults' health and care/public health	ETE, active travel	Health and educational benefits (increased physical activity, awareness environmental pollution)			PH funded	Ongoing	County-wide
Active travel	Encourage developers to consider better routes to schools in all new development to ensure they promote active travel and reduced car alone journeys.	Strategic transport	Development Planning, District Councils, Children's Services, Property Services, Developers	Physical health, mental health, congestion, improved local relations, air quality, life skills, road safety, financial savings, viability on local public transport services, crime reduction, reduced no. of complaints	Modal split data, no of plans that incorporate the suggestions recommended in existing HCC guidance to developers.	A higher proportion of journeys to school are made by active modes leading to healthier lifestyles and reduced carbon from travel to school	Internal staffing budget	2016	County-wide
Travel - Delivery efficiencies	Deliver the reduction in GHG emissions from the integration of Couriers and County Supplies fleets	CCBS		reduced carbon footprint, improved air quality	Total miles driven by Couriers & County Supplies vehicles before and after the integration Total quantity of fuel used by Couriers & County Supplies vehicles before and after the integration KG of CO2e released by Couriers and County Supplies vehicles before integration and after integration			Jun-20	HCC
Public transport	To continue to offer staff incentives on public transport, such as discounts on railway / bus travel (i.e. South Western Railway currently offer discounts of up to 20% on season tickets)	HR	Human Resources would liaise with relevant parties (i.e. South Western Railway) and key stakeholders (i.e. Procurement / Corporate Comms) as appropriate	Offering staff benefits, including discount on public sector travel (i.e. South Western Railway currently offer discounts of up to 20% on season tickets) will continue to promote an environmentally-friendly form of transport (i.e. less travel by car) which will help to reduce carbon emissions.	Measures include cost effectiveness, reduction in fossil fuels and carbon reduction	Increase in the the number of businesses participating in the staff discount scheme	Human Resources would manage this on a case by case basis	In place for a number of years	HCC
Public transport	Partnerships with bus operators to improve vehicle emissions through new vehicle investment or retrofit existing buses with clean exhaust technology.	Strategic Transport	Bus operators; district councils (in some areas); neighbouring highway authorities.	Economic, air quality; healthier lifestyles	Funding won from Govt; average age of HCC bus fleet; investment in new vehicles by private sector operators	Lower emissions from public transport	DfT funding competitions, e.g. Low Emission Bus Fund (LEBS). Private sector investment by bus operators	Ongoing	County-wide
Public transport	Continued operation and investment in public transport infrastructure (e.g. bus stops and priority measures), information (e.g. real time displays and leaflets) and promotion.	Strategic Transport	Bus operators; borough councils; neighbouring authorities.	Economic, air quality; healthier lifestyles	Passenger numbers on bus, rail and ferry.	The quality of public transport to improve and for it to become a mode of choice for more Hampshire residents	LTP; capital programme; Section 106 funding; Govt grants and funding competitions; LEP Growth Fund.	Ongoing	County-wide
Public transport	Continued membership and engagement in Transport for the South East - Transport Strategy to 2050	Strategic Transport	Highway Authorities across the SE, public transport operators & infrastructure owners	Air quality, health benefits, economic benefits (reduced road congestion).	Investment brought in by TfSE and schemes secured	Supportive regional policy framework for reducing carbon from transport; funding secured for large transport schemes	Subject to TfSE becoming a statutory body - approval needed from Govt.		Both
Public transport	Develop a new public transport Strategy as part of LTP 4: •Develop and promote concepts for rapid bus inc. bus priority measures •Develop and interchange plan for rail stations •Enhance existing integrated ticketing system •Enhance bus stop infrastructure across Hampshire •Grant fund tap on tap off bus technology to improve the customer experience •Implement enforcement of bus lanes and use hypothecated income to subsidise public transport	Strategic transport	LEPs, DfT, Highways England, TfSE, Network Rail, Public Transport Operators, Land Use Planning Authorities, Solent Transport, Internal Department leads	Health, Environment, Economic and Social	public transport patronage levels, private vehicle trips made on Hampshire roads per annum; and new houses built in areas of good accessibility	reduced carbon from transport	Existing Revenue Resources, LTP, External funding and grants	May-21	Both
Public transport	Delivery of recently won funding bids such as the Transforming Cities Programmes of work across South Hampshire, Future Transport Zones, Tranche 1 and 2 of the DfT's emergency active travel funding. Schemes include: Bus Rapid Transit, public transport ticketing schemes, cycling and walking infrastructure; transport interchanges; mobility hubs; smart logistics trials including use of drones, public realm improvements, Mobility as a Service (MaaS) products, Demand Responsive Transport (DRT) and possible e-scooter trials.	Strategic Transport	Bus, rail, ferry operators; South Western Railway; Universities in Southampton & Portsmouth plus other organisations.	Air quality, traffic easing, health, economic	Total levels of external funding secured for sustainable transport schemes and schemes delivered on time and budget	reduced carbon from transport	External funding, public transport operator contributions, and Government grants	2020	County-wide
Fuel type	Trial fuel additives / fuel alternatives to Skanska vehicles on HHSC. Possibly HCC vehicles as well?	Highways (commissioning)	HTM, ETE vehicles?	Economic, saving in traditional fuel and possible maintenance costs. Health benefits from reduced air pollution	Measures of fuel efficiency, maintenance costs, reduction in fossil fuels	Reduced carbon emissions			HCC

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Fuel type	Change the Skanska Dragon Patcher burners from Diesel to Kerosene.	Highways (commissioning)	Archway	Economic, saving in overall dragon patching costs.	Measure of cost effectiveness, fuel efficiency	Reduced carbon emissions	Skanska one off capital charge as there will be a longer term saving in overall costs.		HCC
Fuel type	Pilot of a Hydrogenated Vegetable Oil (HVO) fuel for 4 vehicles in County Supplies / HTM / Highways lab fleets, with HVO supply (fuel bowser) to HTM Micheldever site. If HVO trials are successful, transition to a HVO fuel for the HCC diesel fleet.	CCBS	County Supplies	Reduced air pollution	<p><u>Micheldever</u> Litres of sustainable fuel used by vehicles in the study;</p> <p><u>Transition</u> Quantity of HVO fuel used in fleet p.a (currently zero) vs quantity of fossil-fuel fuel used in fleet annually (£1.2m litres annually)</p> <p>Emission of CO2e per litre of fuel</p>	In addition, the brackets in part (b) appear to be wrong.	CCBS funding for pilot; Corporate funding would be required for full roll out - TBC	2020	HCC
Air quality	Shaping air quality communication messages and campaigns	Adults' health and care/public health		Health (decrease in acute and long term conditions due to poor air quality)	PHOF (air quality) as well as health outcomes such as CHD, asthma etc.		Not funded	Ongoing	County-wide
Air quality	Developing an air quality position statement to increase dialogue between ETE and public health	Adults' health and care/public health	ETE	Health (decrease in acute and long term conditions due to poor air quality)			Not funded		HCC
Air quality	AQMA - districts produce action plans that we provide advice, guidance and data	Adults' health and care/public health	District councils	Health (decrease in acute and long term conditions due to poor air quality)			Not funded	Ongoing	County-wide
Air quality	Air quality sub group of the Environmental Health Chief Officers group - we presented data and PHE toolkit on health benefits for every district	Adults' health and care/public health	ETE	Health (decrease in acute and long term conditions due to poor air quality)			Not funded	Ongoing	County-wide
Air quality	Supplementary Planning Document guidance on air quality and spatial planning (links with transport and environment)	Adults' health and care/public health/strategic planning	Planning, ETE, environmental health	Health			Not funded		County-wide
Air quality	Developing an Strategic Environmental Assessment for the STP and Sustainability Appraisal for the HWMP incorporating air quality	Adults' health and care/public health/strategic planning	NHS	Health (decrease in acute and long term conditions due to poor air quality)			Not funded	Hampshire Minerals & Waste Plan - update (2021 onwards)	Both
Energy distribution and generation									
Renewable energy	Where effective, using solar panels to reduce energy consumption	Adults' health and care/public health	Property Services Landlord Function	economic	Energy costs		Capital budget	Apr-20	HCC
Renewable energy	Install PV panels on ETE depot buildings.	Highways (commissioning)	Skanska and possibly HCC via CCBS dept (Property Services).	economic	Measure of energy savings, cost savings and contribution to national grid	Reduction in use of fossil fuels, reduction in energy consumption from national grid	Skanska quality bid, Contribution from ETE depot budget.		HCC

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Renewable energy	Install PV panels on Trafalgar House building roof.	Highways (commissioning)	Rushmoor BC (Landland) and possibly HCC via CCBS dep (Property Services).	economic	Measure of energy savings, cost savings and contribution to national grid	Reduction in use of fossil fuels, reduction in energy consumption from national grid	Skanska quality bid, Contribution from ETE depot budget.		HCC
Renewable energy	Install EV charging points in Trafalgar House Car Park.	Highways (commissioning)	Rushmoor BC (Landland) and possibly HCC via CCBS dept.	economic	Measure electricity outputs and convert to miles to determine fuel savings and carbon reduction and cost savings	Reduction in use of fossil fuels, reduce carbon emissions	Skanska quality bid, Contribution from ETE depot budget.		HCC
Renewable energy	All HCC instructed temporary site offices & messes to have PV panels and or wind turbines to be carbon efficient for medium sized sites (I.E. sites in excess of 4 months duration) or consider All sites	Highways (commissioning)	EC, Skanska	Economic, reduce air pollution	Measure reductions in fossil fuels and associated cost savings, carbon reduction	Reduction in use of fossil fuels, reduce carbon emissions			HCC
Renewable energy	Transition of energy supply for HCC estate to 100% renewables	CCBS		Reduced air pollution	Proportion of HCC's used energy generated from renewable sources		Unknown - costs estimated to be c.£30-40K pa for corporate estate Schools estate is estimated to cost roughly the same in addition to the cost of the corporate estate.	2020-21	HCC
Renewable energy	Provision of renewable energy supply to be added to the next energy frameworks by September 2020. Fully renewable energy to be included as optional in contracts for HCC & schools	CCBS		Reduced air pollution	Option for 100% renewable energy on contracts (yes/no)		Budgets of those organisations using the framework. Cost increase for HCC incl schools estate estimated to be c.£100K p.a.	In progress	HCC & Partners
Renewable energy	Continue Energy Performance Programmes (battery storage, EV, charging, solar, schools solar)	CCBS		cost reduction	Annual GHG emissions from electricity generation for HCC buildings (t CO2e), as reported in HCC GHG report.		HCC Capital funding Service revenue budget Salix funding	In progress	HCC
Energy efficiency	Using LED light bulbs to reduce energy consumption whilst maintaining safety	Adults' health and care/public health	Property Services Landlord Function	Economic	Energy costs		Business as usual budget	Apr-19	HCC
Energy efficiency	Changing policy for lighting new developments to reduce the extent to which street lighting increases over time	Highways (traffic)	Planning authorities/housing developers/HCC Road Agreements team				None (cost avoidance)		HCC
Energy efficiency	Transition Skanska equipment / plant to electric	Highways (commissioning)	A Plant and Skanska Head Office	reduced transport pollution costs and time	Measure reductions in fossil fuels and associated cost savings, carbon reduction	Reduction in carbon emissions		5 years plus	HCC
Energy efficiency	Retrofit LED lights in ETE depots and Skanska's Trafalgar House	Highways (commissioning)	ETE and Skanska	Economic, employee wellbeing	Measure staff sickness absenteeism, cost savings, energy efficiencies, maintenance costs	Reduction in energy consumption and carbon emissions	ETE depot budte and Skanskas budgets	2 years	HCC
Energy efficiency	Skanska gangs to operate with electric powered electric tools only instead of petrol powered	Highways (commissioning)	A plant and Skanska Head Office	Economic, reduce air pollution	Measure reductions in fossil fuels and associated cost savings, carbon reduction	Reductions in carbon emissions		Trial planned for early 2020	HCC

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Energy efficiency	Replacement of high-pressure sodium street lights with low energy LEDs	Highways (traffic)	PFI service provider (Tay Valley Lighting)	Economic			HCC investment		HCC
Energy efficiency	Replacement of incandescent traffic signal lanterns with low energy LEDs (will in some cases require whole sites to be upgraded to ELV, not just the lanterns to LED)	Highways (traffic)	Seimens Mobility	Economic			HCC investment	Requisite contractual ammendments to the PFI project agreement being progressed that will provide for LED replacement programmes. Investment planned for 2020/21, 2021/22 and 2022/23 to replace 12,000 approx of 32,400 high-powered street lighting units on principal roads in Hampshire.	HCC
Energy efficiency	De-illumination of traffic signs (where permitted in the Regs).	Highways (traffic)	District Councils (agents)				HCC investment		HCC
Energy efficiency	Installation of low energy LED street lights at new developments (policy in place and now to only accept LED lighting for new developments)	Highways (traffic)	Housing developers	Economic			Section 38 Agreements (Highways Act 1980)		HCC
Energy efficiency	To deliver the Tri-LEP Energy Strategy	EM3	Coast to Capital LEP LEP Energy Hub South East Greater South East Local authorities Private sector DNOs	Health through more efficient and healthy homes Improved air quality			A mix of potential Local Growth Funding (or future replacement), public sector invesment and private investment		County-wide
Energy efficiency	We have published a Heat and Power Strategy (see: https://solentlep.org.uk/media/2669/solent-lep-heat-and-power-strategy-and-action-plan-final-docx.pdf)	Solent lep							County-wide
Energy efficiency	Conversion to LED lighting across all Countryside service maintained depots over next 5 years. New buildings to be fitted with LED Light fittings & PIRs	CCBS	Property Services, Countryside Service	contributes to carbon positive parks, cost reduction	Currently under consideration			In progress	HCC
Energy efficiency	Completion of current LED programme (EPP4). LED lighting programme scheduled to continue for corporate estate buildings which did not meet EPP4 criteria.	CCBS	Departments where the work is taking place, Corporate finance, External contractors	Cost reduction	LED Metric: Annual cost saving LED Metric: Annual energy savings (kWh) LED Metric: Annual CO2 reduction (CO2)		HCC Capital funding	In progress	HCC
Energy efficiency	Continuation of schools' Energy Performance Programme	CCBS	Schools / Children's services, External contractors	Cost reduction	School EPP Metric: Annual cost saving School EPP Metric: Annual energy savings (kWh) School EPP Metric: Annual CO2 reduction (CO2)		Salix funding	In progress	HCC
HCC emissions	Calculate carbon footprint (scope 1, 2 & 3) of HCC Corporate Estate annually, in a 'State of the Estate' report, in order to develop a targeted plan to tackle worst performing assets as a priority.	CCBS		Economic and environmental	GHG emissions from HCC estate (t CO2e), scopes 1-3			2020	HCC

Buildings and Infrastructure

Project Area	Action	Service delivering	Partners	Co-benefits	Indicators used	Outcome	Funding mechanisms	Delivery start date	Emissions addressed
Energy efficiency	Repairing, upgrading and investing in buildings	Adults' health and care/public health	Property services	Buildings operate effectively in extremes of temperature, lower energy consumption, more efficient heating	Energy costs		Capital budget		HCC
Energy efficiency	Reduce reliance and demand for energy consumption in static buildings as well as reduce fossil fuel consumption in travel to specific office base	adults' health and care/public health	Facilities Management, Property Services	Reduce electricity/fuel costs, more efficient use of staff time at work, congestion benefits, better work life balance.	Productivity, mileage costs		Business as usual budget	Apr-19	HCC
Highways construction/materials	Providing input into local plans to promote walkable streets through creating safe, attractive and convenient routes	Adults' health and care/public health	ETE, district planners	Health (increased physical activity), social (decreased crime/anti-social behaviour)	National planning policy framework		Not funded		County-wide
Highways construction/materials	Planning of asset location to accommodate future road work and maintenance implications - Already undertaken but could look at improving this with Developers.	Highways (commissioning)	Design teams / Developers / Development Planning	Economic, reduce air pollution	Measure of number of traffic management incursions on the highway	Reduction in road works, traffic congestion and carbon emissions			Both
Highways construction/materials	Change all (suitable) Hot machine laid materials to 'Warm Mixes' for use on the highway network.	Highways (commissioning)	EC, Skanska	Economic, saving in electricity costs.	Measure of cost effectiveness, reduction in fossil fuels in material production and carbon reduction	Reduction in energy consumption and carbon emissions	No change to funding.	Trials underway	HCC
Highways construction/materials	Increased incorporation of RAP (Recycled asphalt pavement) into all hot asphalt.	Highways (commissioning)	EC, Skanska	Economic, saving in electricity costs.	Measure of quantity of virgin aggregates that did not need to be excavated and processed, associated costs and carbon reduction	Reduction in carbon emissions	No change to funding.		HCC
Highways construction/materials	Change all (suitable) Hot binder course materials to 'cold lay' for use on the highway network.	Highways (commissioning)	EC, Skanska, OCL	Economic, saving in electricity costs.	Measure of carbon reduction and cost savings of material production	Reduction in carbon emissions	No change to funding.		HCC
Highways construction/materials	Use HBM as base and binder course material wherever possible on highway network.	Highways (commissioning)	EC, Skanska	Economic, saving in electricity costs.	Measure of cost effectiveness, reduction in fossil fuels in material production, reduction in excavating virgin materials, waste reduction, hazardous waste reduction, carbon reduction	Reduction in carbon emissions, reduction in hazardous materials being sent to landfill	No change to funding.	Underway on a small scale in haunching programme at present	HCC
Highways construction/materials	Explore use of Graphene in bituminous materials.	Highways (commissioning)	ADEPT, AI, Skanska Head Office	Potentially a material that is more durable and resilient compared to traditional asphalt materials	Measure effectiveness of material in comparison with traditional materials, savings from less maintenance, reduced road works, cost savings, carbon reduction, reduced air pollution	Reduced highway repairs, reduced energy consumption, reduced carbon emissions			HCC
Highways construction/materials	Use recycled plastic kerbs and plastic gully covers for use on the highway network.	Highways (commissioning)	Skanska supply chain. EC	Reduced musculoskeletal injuries, economic	Measure H&S reports (lost time injuries etc.), improved productivity, carbon reduction in manufacturing process	Reduced carbon emissions		Trials underway for plastic kerbs..	HCC
Highways construction/materials	Use recycled plastic street furniture, and recycled plastic traffic management equipment for use on the highway network. Produce more locally sourced materials for use on highway network	Highways (commissioning)	Skanska suppliers		Measure of proportion of materials locally sourced. Calculation of transportation cost savings and carbon reduction	Reduced carbon emissions			HCC
Highways construction/materials	Use of above ground sensors at traffic signals - i.e. no loop detectors in the carriageway to minimise impact to maintenance and disruption to road users and number of site visits required and amount of destruction required	Highways (Traffic)	Design teams / organisations.						Both

Project Area	Action	Service delivering	Partners	Co-benefits	Indicators used	Outcome	Funding mechanisms	Delivery start date	Emissions addressed
Highways construction/materials	CTMPs implement the requirement for contractors to develop a CTMP for every scheme even if there is no planning permission required. Also change the way that CTMPs are reviewed, to also include an assessment of where the contractor sources materials (distances from site) and removal of waste products to minimise the amount of transportation.								
Highways construction/materials	Cement and lime stabilisation, use where ground conditions are poor - reduction in requirement to bring materials into and off of site.	Engineering Consultancy							HCC
Highways construction/materials	Carbon reduction from construction activity. Include some form of clause in tender contracts that relates to climate change issues (recycled materials, geographic source of materials for example)	Engineering Consultancy	Framework contractors				Capital		HCC
Highways construction/materials	Update/Change all ETE technical guidance, surfacings options documents, Model contract docs, and all other Highway and infrastructure related policies, procedures, guidance and advise to specify carbon reduced materials, methods or working, use of recycled materials etc in all future projects/works and the like.	highways (commissioning)	EC	Economic, saving in traditional fuel and possible maintenance costs. Health benefits from reduced air pollution?	Record of changes and measure of carbon reduction	Reduced carbon emissions	N/A		HCC
Highways construction/materials	Ensure technical teams have the appropriate training and skills to facilitate the development of low carbon solutions.	Highways (commissioning)	HCC, HHSC, EC etc	Economic, reduce waste	Measure of the number of people who have received training	Reduced carbon emissions			HCC
Minerals infrastructure	Establish baseline emission data and monitoring schemes for minerals infrastructure proposals.	Strategic Planning	Portsmouth City Council, Southampton City Council, SDNPA, NFNPA	Economic and health	Annual M&W Plan monitoring, use of planning conditions to require submission of monitoring methodologies and data	Reduced carbon emissions		Hampshire Minerals & Waste Plan - update (2021 onwards)	County-wide
Minerals infrastructure	Review and update the Hampshire Minerals & Waste Plan and its policies to enable establishment of carbon baseline, monitoring and implementation of carbon reduction measures.	Strategic Planning	Portsmouth City Council, Southampton City Council, SDNPA, NFNPA	Economic and health	Annual M&W Plan monitoring, use of planning conditions to require submission of monitoring methodologies and data	Policy change to reduce carbon emissions		Hampshire Minerals & Waste Plan update (2021 onwards)	County-wide
Waste Infrastructure	Review, baseline and develop plans. Emissions from throughput monitored daily, input material part of review. Consideration of regional infrastructure options.	Waste and resource management	District, Borough and Unitary Councils (as WCAs & WDAs)	Economic and health	Currently: NI, BVPI & Circular Economy Package Forthcoming: Resources & Waste Strategy targets – with more to come as a result of forthcoming legislation		Internal [HCC] funding such as cost of change Extended Producer Responsibility and DRS generated funding	Various - current estimated start 2022	HCC
Residential									
Energy efficiency and reduction	Providing advice and heating solutions for those who struggle to heat their homes, particularly those most vulnerable to the cold (Hitting the Cold Spots). Carbon savings achieved through practical measures, estimated at 120.72tCO2 for the quarter Jul - Sept 2019	Adults' health and care/public health	Public Health, the Environment Team, The Environment Centre	Improved health for those who are particularly susceptible to the cold. Improved economic situation where more cost effective heating solutions are identified. Reduced fuel poverty. Greater social support as more likely to have friends visit	Estimated carbon savings, no. of people assisted by advice line and practical measures, level of external funding gained, training, improved financial situation		Current core grant of £120k pa from Public Health. External funding including Warm Home Fund, ECO and SSAFA	2012, though current contract started 1/4/19	County-wide
Energy efficiency and reduction	A freephone advice line and online advice service. Providing straightforward advice about climate change and sustainability, including energy efficiency and home insulation, to support communities, including those involved with the Greening Campaign	Climate Change	The Environment Centre	Cost savings, health, social	Number of residents assisted by advice line	Residents are aware that they can contact The Environment Centre for trusted advice about climate change and sustainability so they know how to transition towards a low-carbon future.		Jul-20	County-wide
Community energy	Supporting and enabling local communities to be more energy efficient and to build their own capacity for renewable energy by establishing a Community Energy Network across Hampshire. A pilot project will find start-up projects for community groups	Climate Change	Community Energy South	Cost savings, health, social	Number of households/community groups involved in community energy network. Carbon savings	Enabling local communities to build their own self sustainability capacity to achieve on-going, ground level emissions reductions.		Jul-20	County-wide

Project Area	Action	Service delivering	Partners	Co-benefits	Indicators used	Outcome	Funding mechanisms	Delivery start date	Emissions addressed
Community energy	Solar Together group buying scheme. Providing the opportunity for selected homeowners and small to medium businesses to buy high quality solar panels at a highly competitive price. Reverse-auction scheme which usually favours local suppliers	Climate Change	iChoosr	Cost savings, health, social	Number of installations of solar. Carbon savings	An increase in solar panels installed for homeowners, increasing renewable energy generation in Hampshire		Jul-20	County-wide
Behaviour change	Greening Campaign - supporting community groups, via parish councils, progress through a series of phases to make carbon savings in their homes and within communities. Each Phase contains an Information Pack, on-line resources, videos and supports residents by email. Training is also provided.	Climate Change	Greening Campaign (Teresa Plowright) - District/Borough/Parish Councils	Cost savings, health, social	Number of residents/community groups signed up. Estimated carbon savings	Supporting community groups take action to make carbon savings in their homes and within communities		Mar-20	County-wide
Waste and circular economy									
Catering waste prevention	Single use plastics will be eliminated from catering front of house of CCBS services.	CCBS	Countryside service, Hillier Gardens, Hampshire Outdoor Centres, FM	environmental	Volume of single use plastic items used 2019/20		service budgets	In progress	HCC
Waste prevention	Reduced printing	Adults' health and care/public health		Economic			Not funded	Ongoing	HCC
Waste prevention	Winter Maintenance - route optimisation.	Highways (commissioning)	HCC, Visala	Economic (fewer salt-runs, less salt purchased/transported) health (reduced air pollution)	Measure of network treated and savings in transportation and salt costs and carbon reduction	Reduced carbon emissions through transportation and mining process	ETE Rev budgets		HCC
Waste prevention	Adopting paperless methods of record management	Adults' health and care/public health	Corporate IT, Dept Transformational team	Reduce demand for energy consumption associated with printing, storing, recycling paper based materials	Improved record keeping, Standardised evidence for regulatory requirements Easier retrieval of records when required		Business as usual budget	Apr-19	HCC
Recycling	Decontaminating and recycling 90% prescribed equipment items	adults' health and care/public health	Facilities management	economic	Reduce landfill and waste Product design advances		Business as usual budget	ongoing	HCC
Waste reduction and increased recycling	Validation and analysis of waste collection data for CCBS services to establish their baseline waste generation and assess the realistic potential for recycling. Liaison with CCBS services to set waste reduction and recycling targets.	CCBS	Suez, CCBS services	environmental	Non-recyclable waste generated annually, (t) Recyclable waste generated annually (t) Recycling rate, including Dry Mixed Recycling and food (%) Types of waste collected (by material)			2020	HCC
Recycled materials	Create a recycled cold binder and base materials from planings/waste to use in the highway network.	Highways (commissioning)	OCL, Skanska, EC	Economic	Measure of savings in virgin aggregates, transportation savings, carbon reductions, operational productivity	Reduced carbon emissions through manufacturing process and transportation			HCC
Recycled materials	Create a recycled aggregate sub-base materials from waste to use back in the highway network.	Highways (commissioning)	OCL, HHSC, EC.	Economic	Measure of savings in virgin aggregates, transportation savings, carbon reductions, operational productivity	Reduced carbon emissions through manufacturing process and transportation			HCC
Recycled materials	Safeguard existing recycling capacity and support new aggregate recycling proposals.	Strategic Planning	Portsmouth City Council, Southampton City Council, SDNPA, NFNPA	Economic and health.	SEEAWP Annual Aggregate monitoring and National 4 yearly monitoring	Increase capacity and use of recycling		In progress (Hampshire Minerals & Waste Plan)	HCC
Recycled materials	Strategy to commit to ensuring that all collateral is made from sustainable materials and wherever possible recyclable or biodegradable.	Childrens' services	Voluntary sector providers	Reduction in food costs Healthy eating Community participation	Annual fostering marketing commissioning report	Contribute towards the corporate energy reduction plan through the use of sustainable materials only.	Existing fostering budget	May-20	HCC
Recycled materials	Already encourage use of recycled materials for pavement construction (roads and footways of new developments and major schemes) eg IBAA and Type 1 Materials, HBM, already in standard details but could emphasise.	Engineering Consultancy							HCC
Recycled materials	HBM and use of road chippings to be used back on new roads, and kept within Hampshire. i.e road surfacing chippings removed from roads, is used for HBM	Highways Commissioning			Measure of savings in virgin aggregates, transportation savings, carbon reductions, operational productivity	Reduced carbon emissions through manufacturing process and transportation			HCC

Project Area	Action	Service delivering	Partners	Co-benefits	Indicators used	Outcome	Funding mechanisms	Delivery start date	Emissions addressed
Disposal	Review alternative methods, consider longer-term feasibility and implementation within boundaries of existing contracts and future aims	Waste and resource management	Neighbouring Local Authorities - regional infrastructure. District, Borough and Unitary Councils (as WCAs & WDAs)	Economic, health, social	Currently: NI, BVPI & Circular Economy Package Forthcoming: Resources & Waste Strategy targets – with more to come as a result of forthcoming legislation			Various - current estimated start 2022	HCC
Disposal	Review alternative methods, consider longer-term feasibility and implementation within boundaries of existing contracts and future aims	Strategic Planning/Waste & Resource Management	Portsmouth City Council, Southampton City Council, SDNPA, NFNPA, District Councils, Neighbouring LPAs	Economic, health, social	Monitor through annual waste survey and waste data interegator			Hampshire Minerals & Waste Plan - update (2021 onwards)	HCC
Collections	Work with WCAs through HWP/Project Integra to consider alternative whole system approaches, reducing carbon impacts and improving efficiency and compliance with Gov objectives (Env Bill and Resources & Waste Strategy)	Waste and resource management	Waste Contractors (Veolia, Credential, Silverlake). District, Borough and Unitary Councils (as WCAs & WDAs)	Economic, health, social and wider environmental benefits	Currently: NI, BVPI & Circular Economy Package Forthcoming: Resources & Waste Strategy targets – with more to come as a result of forthcoming legislation		Extended Producer Responsibility and DRS generated funding	Various - current estimated start 2022	HCC
Food waste collection	Explore the feasibility of expanding food waste collections to Schools.	CCBS	Schools	Economic and environmental	Frequency of food waste collections from school sites (if any) Quantities of food waste (t) collected from school sites annually CO2e emissions savings from diverting food waste away from general waste, annually Annual cost saving from diverting food waste away from general waste to sepearate collections		schools' budgets	Nov-20	HCC
Food waste collection	Explore the feasibility of expanding food waste collections in CCBS' managed locations e.g. Offices, CCBS sites.	CCBS	Countryside service, Hillier Gardens, Hampshire Outdoor Centres, FM	Economic and environmental	Frequency of food waste collections from CCBS sites Quantities of food waste (t) collected from CCBS sites annually CO2e emissions savings from diverting food waste away from general waste in CCBS sites, annually Annual cost saving from diverting food waste away from general waste to sepearate collections in CCBS sites		service budgets	Nov-20	HCC
Reuse	Drive material up the hierarchy, enable reuse ahead of recycling; support local organisations that enable reuse	Waste and resource management	Charities and other reuse organisations. District, Borough and Unitary Councils (as WCAs & WDAs)	Economic, health, social and wider environmental benefits	Currently: NI, BVPI & Circular Economy Package Forthcoming: Resources & Waste Strategy targets – with more to come as a result of forthcoming legislation			Various - predominantly ongoing with work currently underway	County-wide
Closed Landfill	Closed Landfill: Manage and monitor closed landfills incl landfill gas - reuse gas where feasible and minimise carbon impacts	Waste and resource management	Waste Contractors (Veolia, Credential, Silverlake). District, Borough and Unitary Councils (as WCAs & WDAs)	Economic and wider environmental benefits	Currently: NI, BVPI & Circular Economy Package Forthcoming: Resources & Waste Strategy targets – with more to come as a result of forthcoming legislation			Various - predominantly ongoing with work currently underway	HCC
Business and Green Economy									
Capital	We are investing in a Natural Capital study with Fawley Waterside to secure a baseline of Natural Capital in the New Forest	Solent lep							County-wide
Capital	Develop a Natural Capital baseline for the LEP area	EM3	Green Halo Partnership New Forest National Park Surrey Wildlife Trust						County-wide
Business Emissions	Establish what our business membership and representative organisations are doing in relation to carbon reduction. Ask them to undertake intelligence of members, e.g. Carnival, Exxon Mobil to learn what those companies' priorities are and how we can work together on this shared agenda.	Economic development	Business South; IOD; Make UK; Hampshire Chamber of Commerce; Federation of Small Businesses; Hampshire Fare.	Identify opportunities to collaborate and raise awareness amongst businesses of things they can do to mitigate impact and get support to adapt.	Degree of accurate and relevant mapping of what businesses and partner organisations are doing. Level of engagement by businesses and partner organisations.	Increased awareness of opportunities to mitigate and adapt. Increased awareness of support and initiatives to enable mitigation. Businesses valuing the ways in which HCC can assist and experiencing benefits to their business.	Not applicable	Autumn 2020	County-wide
Business Emissions	Support the businesses in our area that can support this transition and seize the opportunity. We have recently completed a study on the extent of the low carbon sector within the EM3 area. This has shown that we have significant capability to help deliver the changes and technologies required.	EM3					Possible interventions will be developed as part of the Local Industrial Strategy	Autumn 2020	County-wide

Project Area	Action	Service delivering	Partners	Co-benefits	Indicators used	Outcome	Funding mechanisms	Delivery start date	Emissions addressed
Business Emissions	Our emerging Solent 2050 Strategy - one of our pillars is for the Solent is to be an engine for climate change adaptation and decarbonisation.	Solent lep							County-wide
Business Emissions	Act as a strategic partner to the ERDF LoCASE project which will deliver business support, guidance and grant funding to SMEs	Economic development	Kent County Council, all Hampshire local authorities, Solent and Enterprise M3 LEPs	The grants programme will support local SMEs to: improve their energy efficiency and resource use; support eco-innovative and low carbon solutions in ways that improve business performance in terms of resilience, profitability and competitiveness; and at the same time create jobs and contribute to the protection of the environment	Number of businesses engaged and supported	Improved energy efficiency and business performance	ERDF (multi-LEP project)	Autumn 2020	County-wide
Locally sourced food	Developing a Hampshire eating out healthily award which will incorporate a sustainability element prioritising locally sourced food	adults' health and care/public health	Environmental health, district councils, local businesses	Promote healthy and sustainable food. Support and highlight businesses that provide this.			PH funded	Undergoing market testing.	County-wide
Green technology	Establish a marine innovation 'catapult' at Fawley - a national centre of excellence for industry to develop low carbon solutions for the future.	Economic development	Fawley Waterside partners, National Oceanographic Centre, universities, Government	Developing world-leading technologies and techniques to deliver low/no carbon products and services that can service the UK economy and be exported	Catapult established and number and type of businesses and research institutions engaged	Catapult demonstrably driving investment, developing new technologies and enabling commercial application and take up amongst businesses	Government - Innovate UK/BEIS, universities, LEPs industry, local authorities.	2021-2022	County-wide

Project Area	Action	Service delivering	Partners	Co-benefits	Indicators used	Outcome	Funding mechanisms	Delivery start date	Emissions addressed
Biodiversity, tree planting and re-wilding									
Carbon sequestration and public education	Create a Climate Positive Country Park. Implementing change going beyond net zero carbon emissions to create an environmental benefit. To include: Rewilding, carbon sink creation, energy generation and waste management	CCBS	Property Services, ETE, Natural England	Cost reduction, increased public education, test new approaches for future schemes. Environmental protection	Net CO2e emissions (t) annually CO2e emissions (t) annually Sequestered CO2e emissions (t) annually		grant funding / internal revenue	2021	Both
Carbon sequestration and public education	Evaluate a new approach for Runway's End Outdoor Centre, rebranding as an Eco-Centre, aiming to be carbon neutral. Adjustment of Outdoor Service provision towards educating on Climate Change issue.	CCBS	Property Services	Environmental protection. Increased public education	CO2e emissions (t) annually			2023	Both
Carbon sequestration	Develop a strategy and decision-making framework to enable us to increase the carbon capture and storage in HCC's green estate	CCBS	Strategic Land, Rural Estate, Countryside estate, schools estate	Environmental protection	Currently under consideration			2020	HCC
Tree planting	Investigate green screen concept and include in schemes as appropriate.	Highways (commissioning)	Arb team	Social	Measure number of additional trees, shrubs, bushes planted	Reduction in carbon dioxide			County-wide
Tree planting	Project to address a section of wasteland where currently fly tipping and re-purpose for allotments for people with physical disabilities	adults' health and care/public health	CCBS, Hedge End Town Council	Benefit to people with physical disabilities in terms of access to green spaces, physical activity and social interaction	Site is transformed to 20+ allotments, number of people with physical disabilities using the allotments, reduction in fly tipping		Business as usual budget	Feb-20	County-wide
Tree planting	Increase tree planting and re-wilding of appropriate areas, the goal being to increase canopy cover percentages and the associated carbon sequestration.	Highways (commissioning)	District and Parish Councils; subject to collaboration and specific joint authority agreements (mechanism to be established).	Carbon sequestration benefits of increased canopy cover. Reduced fuel usage due to less cutting.	Tree numbers planted (% increase on previous years)	Reduction in carbon dioxide	Highway tree Compensation (CAVAT valued) and Capital receipt funding. Self-funding from reduced cuts		Both
Biodiversity Net Gain	Increase amount of semi-natural habitat including tree planting and woodland/habitat creation through planning advice on HCC development schemes and LPA planning applications to increase carbon sequestration	Environment	Highways/CCBS/Districts	Biodiversity net gain	Area of net gain in habitat	Increase in carbon storage	Recharge to client	BAU	County-wide
Organisational Emissions									
Policy and Guidance	To review existing policies and procedures (i.e. Flexible Working Policy, Expenses Policy) to ensure they align with HCC's Climate Change Action Plan and Strategy. For example, introducing a Climate Change Impact Assessment	HR	Human Resources to liaise with relevant key stakeholders, including Finance, IBC, Procurement, Comms etc, as appropriate	Ensuring all policies and guidance documents embed the principles of the Climate Change Strategy will promote a clear and consistent vision and encourage best practice	Audit / quality assurance carried out	Policies and procedures are legally compliant and provide clear guidance to staff on climate change matters	This would be managed internally by Human Resources, who would engage with Trade Unions representatives where appropriate	To start from Q3 2020 (October - December)	HCC
Purchased goods/services	Purchased Goods: Develop climate related KPIs for existing suppliers and climate related contractual terms for new suppliers / contracts. Work with existing suppliers to implement KPIs. Apply new contractual terms to future tenders once approved, to incorporate climate considerations into purchase of goods through County Supplies.	CCBS	Corporate Procurement, Policy & Governance, Legal services, All services	Economic - ensuring we're clear on where greatest impacts are, and targeting effort and resource at the right opportunities. Environmental protection	Currently under consideration			2020	HCC
Purchased goods/services	Procurement of catering suppliers and products with objective of reducing food packaging and / or ensuring packaging is 100% compostable, recyclable or biodegradable	CCBS	County Supplies	Environmental benefits	Currently under consideration			Dec-20	HCC
Purchased goods/services	Develop the Council's procurement processes to accommodate the Council's Climate Change policy/strategy and associated Action Plan	Procurement		Potential for indirect local economic, social and health benefits		The Council's procuring departments are able to build climate change priorities into their requirements for goods/works and services in line with the corporate strategy.		Within 6 months of Council's Climate Change Strategy/Policy being approved	HCC
Purchased goods/services	Update the Council's procurement strategy to incorporate the Council's Climate Change policy/strategy	Procurement		Potential for indirect local economic, social and health benefits		The Council's Procurement Strategy is up to date and reflects the Climate Change approach and direction being taken by the Council.		Within 12 months of Council's Climate Change Strategy/Policy being approved	HCC
Purchased goods/services	Update procurement guidance to ensure it signposts to relevant information on Climate Change considerations when procuring goods, works and services.	Procurement		Potential for indirect local economic, social and health benefits		The Council's procurement guidance available to Officers is up to date and supports the Climate Change approach and direction being taken by the Council.		Within 6 months of Council's Climate Change Strategy/Policy being approved	HCC
HCC emissions	T21 estates review to include sustainability	adults' health and care/public health	Property Services	Economic			Not funded	Ongoing	HCC

Project Area	Action	Service delivering	Partners	Co-benefits	Indicators used	Outcome	Funding mechanisms	Delivery start date	Emissions addressed
Behaviour change									
Encouraging behaviour change in staff	Participate in the annual Green Office Week in May.	Childrens' services	Voluntary sector providers	Reduction in food costs Healthy eating Community participation	Staff survey feedback	Staff awareness of the climate change action plan is increased and their behaviour changes in light of this understanding		2021	HCC
Encouraging behaviour change in staff	Promoting and incentivising materials recycling culture for staff and service users	Adults' health and care/public health	All heads of service	economic			Business as usual budget	Apr-19	HCC
Encouraging behaviour change in staff	Incentivise providers to safeguard wellbeing of service users, maintain them at home and reduce potential hospital admission	Adults' health and care/public health	Procurement	Wider awareness, cultural change,			Business as usual budget	Apr-21	County-wide
Encouraging behaviour change in staff	Encouraging / incentivising service providers to increase environmental awareness and record their approach	adults' health and care/public health	Procurement	Wider awareness and cultural change	Provider KPIs		Business as usual budget		Both
Encouraging behaviour change in residents	Identify or develop and deliver resources to support children to engage with the climate change discussions and to encourage each to make one commitment.	Childrens' services	Voluntary sector providers	Reduction in food costs Healthy eating Community participation Wider environmental benefits	Children's feedback	Children's awareness about climate change will be increased. To contribute towards the Corporate energy reduction plan. To reduce the use of energy and water usage in Hampshire Children's Homes by 5% in 2020-21		Sep-20	County-wide
Active travel	Support on the reduction in car journeys to school through the engagement with schools on travel planning measures to promote active and sustainable modes, using the national Modeshift STARS accreditation scheme as a recording mechanism of activity and achievement.;	Strategic Transport	Schools, Sustrans, Living Streets, Councillors, Parish Councils, Police, District Councils, Public Health, Southampton CC, Energise Me	Physical health, mental health, congestion, air quality, life skills, road safety, financial savings, carbon reduction, viability on local public transport services, crime reduction, partnership working between the LAs, reputation of HCC	Modal split data and no. of schools who have achieved the various levels of accreditation.		Public Health grant, Access Grant (DfT funding), Clean Air Zone funding (DEFRA) and internal recharges to Property Services when related to planning	2003	County-wide
Active travel	The use of a localised active and sustainable travel brand, My Journey, between HCC, PCC and SCC including a one-stop shop website with journey planning tool and various social media channels.	Strategic Transport	HCC, SCC, PCC, bus operators, train operators, Sustrans, Living Streets, Cycle UK, British Cycling, developers	Physical health, mental health, congestion, air quality, life skills, road safety, financial savings, carbon reduction, viability on local public transport services, crime reduction, partnership working between the LAs, reputation of HCC	Hits received on website and social media channels, surveys undertaken on brand recognition.		LEP funding, DfT grant funding, traded services	2012	County-wide
Energy	Education of staff, carers and children to be developed and rolled out to ensure all aware of individual responsibilities and impact.	Childrens' services	Hampshire foster carers Children's Services' staff	Reduction in energy costs	Staff/Carer/ Child Survey	To contribute towards the Corporate energy reduction plan. To reduce the use of energy and water usage in Hampshire Children's Homes by 5% in 2020-21		Sep-20	Both
Food	Ambassadors of Climate Change to be identified for the Children's Homes and foster carers to lead on changing shopping habits to utilise food waste where available in communities and reduce all waste.	Childrens' services	Voluntary sector providers	Reduction in food costs Healthy eating Community participation Wider environmental benefits	Ambassador feedback and reporting	To contribute towards the Corporate energy reduction plan. To reduce the use of energy and water usage in Hampshire Children's Homes by 5% in 2020-21		Sep-20	County-wide
Food	Prevent and reduce waste arisings, incl food waste in particular through active public engagement. Activities include home composting, recipes for leftovers, correct food storage and menu planning.	Waste and resource management	WRAP, District, Borough and Unitary Councils (as WCAs & WDAs)	Reduction in food costs Healthy eating Community participation Wider environmental benefits	Currently: NI, BVPI & Circular Economy Package Forthcoming: Resources & Waste Strategy targets – with more to come as a result of forthcoming legislation		Some new burdens to be funded through Central Government (such as food waste). Poss funding through WRAP for particular areas of work	2017	County-wide
Food	Increase number of low carbon meal options on the menus provided by CCBS services.	CCBS	Countryside Service, Hillier Gardens, Hampshire Outdoor Centres	Health benefits, environmental benefits	Currently under consideration			Aug-20	HCC
Food	Shift to lower carbon options provided by CCBS services.	CCBS	Countryside service, Hillier Gardens, Hampshire Outdoor Centres	Health benefits, environmental benefits	Currently under consideration			Aug-20	HCC
Food	Behaviour change: Re-arrange layout of menus and re-word product descriptions to better promote low carbon options	CCBS	Countryside service, Hillier Gardens, Hampshire Outdoor Centres	Health benefits, environmental benefits	Positioning of low-carbon options on the schools, HOC, Country Parks, Eil Café and SHHG menu's Menu descriptions re-worded			Jun-20	HCC

Project Area	Action	Service delivering	Partners	Co-benefits	Indicators used	Outcome	Funding mechanisms	Delivery start date	Emissions addressed
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Current and Planned HCC Activity Climate Change Resilience

Project Area	Action	Service delivering	Partners	Co-benefits (economic, social, health etc)	Indicators used	Outcome What is the desired final result? E.g policy change, flood resilience	Funding mechanisms	Delivery start date	Emissions addressed
Resilient buildings and non-highway infrastructure									
Buildings	Education of staff, families and children Include impact of a 2 degree rise in temperature in health and safety audits now to plan for the future Work with providers to educate around climate resilience to ensure that buildings can cope with an increase in temperature Consider flood action plans in risk management in children's homes Educate staff and carers about potential risk of increased flooding in the future and encourage thinking about mitigations or actions should it occur.	Childrens' services	All staff Independent providers Foster carers	Health benefits (from increased fluid intake)	Health & Safety plans Contract tender documentation	Appropriate preventative action is undertaken by children, staff and providers	Existing budgets	Sep-20	Both
HCC owned buildings	Develop the measures for building resilience to the impacts of a 2 degree C global temperature rise as part of a State of the Estate report	CCBS	All HCC Depts	Economic	Under consideration			Sep-20	HCC
Planning	Preparation of design guides and bulletins for land release / development sites - establishing parameters that encourage robust GI, connectivity for walking/cycling routes etc, and promoting the benefits offered by landscape and biodiversity for ameliorating climate within urban areas.	Planning and Environment	Hampshire & IOW Planning Officers Group, Hampshire Local Government Landscape Group (HLGLG), Quality Places Practitioners Group (QPPG)	Environmental (E), Economic (Ec), Social (S), Health (H), Biodiversity (B)	Number of applications meeting agreed GI objectives	Improved design standards on development sites	Partnership funding arrangements	2020/2021	County-wide
Planning	Work with the Environment Agency, local planning authorities and other partners to develop the planning skills and capabilities to advise developers on how adaptive approaches should inform strategic local plans, and enable climate resilient places.	Planning and Environment	Hampshire & IOW Planning Officers Group, Hampshire Local Government Landscape Group (HLGLG) / Quality Places Practitioners Group (QPPG) , LPAs	Economic, social, health, wider environmental benefits	Local Plan monitoring	Improved planning skills and capabilities.	Government (Defra) Funding	2020/2021	County-wide
Planning policy	HCC Policy - Better implementation of HMWP Climate Change Policy (validation), increased emphasis on recycled aggregates / DM event - highlight policy requirements / Review and update of HMWP Climate Change policies / Plan as a whole (e.g. net gain) / Seek formal consultation response from Climate Change experts? HCC Influence on Local Plan making and major development proposals - encourage and promote use of smart and challenging planning policies with CC emphasis that are enforced. HCC provided data/evidence (demography, land supply, HBIC, HE, transport etc.) HCC State of the Environment report and HCC Spatial Framework to better inform decision making.	Strategic planning	Central government, Homes England, Local Planning Authorities – implementation of NPPF Historic England, Natural England, EA, Highway Authorities, LLFA, LEPS Community – agency of local action. Developers, house building industry	A successful planning system (planning policies) should deliver Economic, Social and Environmental benefits as envisaged in the NPPF. Quality of place - natural & built environment - should improve health and wellbeing, create a sense of community and reduce the need to travel etc.	To be established - starting point is to develop good baseline evidence (e.g State of the Environment, Economy, Society work)	Improved Planning Policy Framework with greater emphasis on resilience to Climate Change	Government funding e.g. Homes England. Section 106/CIL/Strategic Infrastructure fund. LEPS Funding. Opportunities identified elsewhere relating to flooding, natural environment, economy	Ongoing. 1) 2020 Review of HMWP 2) Update of Hampshire Minerals & Waste Plan (2021+) 3) Review of Validation Checklist for early 2020 (greater emphasis on addressing current CC policy) 4) State of the Natural Environment Report underway	County-wide
Planning policy	Review Hampshire Minerals & Waste Plan policies to ensure suitable consideration given to location of minerals and waste infrastructure to be resilient to climate change.	Strategic Planning	M&W Plan partners - PCC, SCC, SDNPS, NFNPA	Economic, social	Annual monitoring of M&W Plan policies	Improved M&W policy framework with greater emphasis on resilience to Climate Change		2021	County-wide
Landscape	Review and update Landscape and Development Checklist - To include requirement for development to demonstrate a net environmental gain	Planning and Environment	Hampshire & IOW Planning Officers Group, Hampshire Local Government Landscape Group (HLGLG), Quality Places Practitioners Group (QPPG)	Economic, social, mental health	Number of applications meeting checklist criteria	Improved development demonstrating greater resilience to Climate Change and environmental net gain	Partnership funding arrangements	2021/2022	County-wide

Project Area	Action	Service delivering	Partners	Co-benefits	Indicators used	Outcome	Funding mechanisms	Delivery start date	Emissions addressed
Landscape	Review and revise Hampshire Townscape Character Assessment to assess sensitivity to climate related changes.	Environment	Hampshire & IOW Planning Officers Group, Hampshire Local Government Landscape Group (HLGLG), Quality Places Practitioners Group (QPPG)	Economic, social, health	Townscape Character Areas shown as being at threat / resilient to climate change	Valued characteristics of Hampshire towns retained	Existing budgets	2022/2023	Both
Preservation of historic buildings	1. Commitment to maintaining the HER as the evidence base to monitor the state of the historic environment, and any decline and the efficacy of any intervention/project /strategy. 2. Support Citizen programme or equivalent (community based archaeological recording of archaeology revealed in erosion)	Environment		Economic, social, health, wider environmental benefits	1. Historic Environment Record is maintained and up to date 2. The community is able to record archaeology exposed by natural coastal change.	1. Historic environment Record is maintained and up to date 2. The community is able to record archaeology exposed by natural coastal change		1. Ongoing 2 & 3 2020/21	Both
Preservation of historic buildings		Environment			Guidance about historic and protected building adaptation to climate change impacts	published advice available as to how to make historic and protected buildings resilient to effects of climate change			HCC
Preservation of historic buildings	1. Identify and map areas of wetland with this potential, map on to HER. 2. Programme of precautionary palaeo environmental sampling before loss.	Environment		Social, mental health	Areas of wetland are mapped; programme of precautionary sampling according to threat of loss	The palaeo-environmental potential of wetlands is understood prior to any natural loss		2021/22	County-wide
Preservation of historic buildings	Ensure that Defra have an active policy regarding historic landscape resilience (and within their stewardship schemes) and understanding and measuring change. Ensure designated landscapes (National Parks and AONBs) have an active policy as above	Environment		Social, mental health	That the conservation of the historic environment is stated aim of stewardship policies	That the conservation of the Historic Environment is a stated aim of stewardship policies		2020/21	County-wide
Resilient transport systems and highways infrastructure which adjust to the changing environment									
Highways Materials	Use of graphene-enhanced asphalt	Highways (commissioning)	Skanska Head of office	Economic, reduced maintenance	Frequency of repairs over like for like comparison	Reduction in carbon emissions		1-2 years	HCC
Highways Materials	Amend design commission Task Orders to include a Climate Change section requiring design for effects of climate change (higher temperatures for longer periods / more intense rainfall / coastal erosion).	Highways (commissioning)	Design teams / organisations (Atkins, EC, Districts)		Measure of additional capacity created	Improved resilience against weather extremes	Capital		HCC
Highways drainage	Improve Drainage systems as issues are identified	Highways (commissioning)	Skanska	Economic	Measure of number of schemes delivered, additional capacity created	Flood resilience	Maintenance budgets	Ongoing	County-wide
Highways drainage	Increase capacity of soakaways / SUDs	Highways (commissioning)	Skanska	Economic, social	Measure of number of schemes delivered, additional capacity created	Flood resilience			County-wide
Highways drainage	Consider use of new and emerging sensors to help manage just in time cleansing of gullies etc	Highways (commissioning)			Measure of savings through transportation, waste disposal	Reduction in carbon emissions, waste disposal			County-wide
Highways drainage	SUDS - use of open drainage systems, to encourage greener space, bio diversity and tie in the LLFA's also to plan layout with regards to flood events.	Highways (commissioning), Planning and Environment	Districts and planning authorities, Housing developers	Social, mental health				Ongoing	County-wide
Highways drainage	Tree pits/attenuation built into one system along side of highways	Highway (Commissioning)	Districts and planning authorities, Housing developers						County-wide
Network resilience	Consider design of new schemes to ensure long-term durability of carriageways and footways in clay soil areas	Highways (commissioning)	EC, contractors.Consultants	Long-term benefit to maintenance costs	Reduction in incidence of cracking in carriageways and footways	Fewer highway maintenance works required. Reduction in carbon emissions and pollution	No cost?		County-wide
Network resilience	Identification of routes on the highway network prone to treetfall. Include in Network Resilient Plan and Weather Emergency Plan. Develop mitigation measures	Highways (commissioning)		Increased safety for highway users and reduction in network disruption	Strategic measure in the Highways Performance Management Framework (number of days of road closures on resilient network)	Reduction in closures on resilient network, traffic congestion and subsequent carbon emissions	Existing budgets		County-wide
Network resilience	Ensure Winter Emergency Plan is fit for purpose and link to the Network Resilient Plan (review both regularly). Identify hotspots on resilient network and develop mitigation measures.	Highways (commissioning)	Skanska	Increased safety for highway users and reduction in network disruption	Strategic measure in the Highways Performance Management Framework (number of days of road closures on resilient network)	Make winter maintenance operation as efficient and reduces carbon emissions as much as possible	Existing budgets		County-wide
Network resilience	Ensure flooding events and high risk areas are recorded on GIS. Data collection, routine cleansing and schemes to be prioritised accordingly. Develop and implement a Network Resilience Plan	Highways (commissioning)	Skanska	Minimise disruption on the highway network and limit the number of highway claims relating to flooding	Strategic measure in the Highways Performance Management Framework	Keep highway open as much as possible, reduce road closures, traffic congestion and associated carbon emissions	Existing budgets		County-wide

Project Area	Action	Service delivering	Partners	Co-benefits	Indicators used	Outcome	Funding mechanisms	Delivery start date	Emissions addressed
Network resilience	Identification of routes on the highway network prone to groundwater flooding. Include in Network Resilient Plan and Weather Emergency Plan. Develop mitigation measures	Highways (commissioning)		Increased safety for highway users and reduction in network disruption	Strategic measure in the Highways Performance Management Framework (number of days of road closures on resilient network)	Keep highway open as much as possible, reduce road closures, traffic congestion and associated carbon emissions	Existing budgets		County-wide
Weather resistant network	Potentially increase SCRIM and other technical survey frequency to monitor impact and risk	Highways (commissioning)	SET and Skanska	Increased safety for highway users	Monitor road condition data	Use of different materials to reduce potential increase in roadworks and associated carbon emissions and pollution	Existing budgets		County-wide
Weather resistant network	Consider increasing survey regime in potentially affected structures	Highways (commissioning)	Atkins	Increased safety for highway users	Strategic measure in the Highways Performance Management Framework (condition of structures)	Ensure robust measures in place to ensure integrity of structure remains and protect public safety	Existing budgets		County-wide
Weather resistant network	Consider increase in surveys/monitoring and cross party collaboration with EA and other appropriate bodies	Highways (commissioning)	Environment Agency; Local Planning Authorities; ESCP	Minimise disruption on the highway network; Economic	Monitor impact of sea levels and severe weather	Ensure robust measures in place to ensure integrity of infrastructure remains and protect public safety	Partnership funding arrangements	2021/22	County-wide
Weather resistant network	Identification of embankments and assessment of slope stability and establish routine surveys	Highways (commissioning)	Atkins	Increased safety for highway users	Monitor number of landslips	Ensure robust measures in place to ensure integrity of embankments remains and protect public safety	Existing budgets		County-wide
Claims	Review claims processes and procedures. Review Insurance type and cover.	Highways (commissioning)		Minimise highway authority's liability and reduction in payouts	Monitor number of claims due to extreme weather events	Ensure robust measures in place to ensure integrity of all highway infrastructure is maintained as far as reasonably possible to reduce claims and protect public safety			HCC
Highways infrastructure	Upgrade/modify susceptible equipment/install fans	Highways (traffic)	Seimens Mobility	Economic		More resilient equipment susceptible to fewer faults as a result of higher temperature, leading to greater operational effectiveness and fewer repairs.	HCC investment required		HCC
Highways infrastructure	Enhanced base seals/fit mesh to air vents	Highways (traffic)	Seimens Mobility	Economic		Improved safety for staff servicing equipment and members of the public in the vicinity of installations	HCC investment required		HCC
Highways infrastructure	Enhanced base seals/raise cabinets	Highways (traffic)	Seimens Mobility	Economic		More resilient equipment susceptible to fewer faults as a result of water ingress, leading to fewer repairs.	HCC investment required		HCC
Highways infrastructure	Upgrade electrical installations to extra low voltage	Highways (traffic)	Seimens Mobility	Economic		Improved safety for staff servicing equipment and members of the public in the vicinity of installations	HCC investment required		HCC
Scheme programming	Investigate impact of climate change on scheme programming (ecology windows / weather / temperature)	Engineering Consultancy	Design teams / organisations (Atkins, EC, Districts, Planning and Environment)				Capital		County-wide
Governance	Project development - Review and update Good Governance / Gateway process to recognise importance of Climate Change adaptation / mitigation objectives	Strategic Transport		Economic, social, health, wider environmental benefits				2020/2021	HCC
Data	Adopt Ecosystems Services tool to establish baseline value of existing natural environment assets e.g. CAVAT	Highways (Commissioning - Arboriculture) and Environment		Economic, social, health, wider environmental benefits	Value of existing natural environment assets retained	Ecological impact of new transport schemes properly accounted for in scheme development.	Capital	Started	County-wide
Strategy	Ensure Highways Management Action Plan integrates countywide Green Infrastructure Strategy	Highways (Commissioning), Planning and Environment	Skanska	Economic / Social / Health	Strategic measure in the Highways Performance Management Framework	Highway management plan is responsive to green infrastructure strategy objectives	Existing budgets	To coincide with LTP timetable	County-wide
Waste and circular economy (inc water resource)									
Water recycling	Grey water recycling in ETE depots	Highways (commissioning)		Economic	Measure quantities of recycled water used	Ensure sufficient water available to operate in offices and depots and deliver highways service			HCC

Project Area	Action	Service delivering	Partners	Co-benefits	Indicators used	Outcome	Funding mechanisms	Delivery start date	Emissions addressed
Waste infrastructure	Review, baseline (where we are now) and develop appropriate plans. Use previous work undertaken on NI188 to help identify risks and mitigations	Waste & resource management	Veolia HCC as the Strategic Planning Authority Environment Agency WCAs	Economic, wider environmental benefits, social and possibly health			Shared between Veolia and HCC (+SCC/PCC) according to contractual conditions	(2020) Ongoing programme of resilience improvement	HCC
Closed landfill	Review, baseline (where we are now) and develop appropriate plans. Use previous work undertaken on NI188 to help identify risks and mitigations	Waste & resource management	Veolia Environment Agency	Economic, social, health, wider environmental benefits			Management is statutory requirement so part of current delivery	(2020) Ongoing programme of resilience improvement	HCC
Behaviour change	Education of staff, families and children about the impact of climate change on the availability of water supplies and encouragement of water saving strategies across all settings (eg. Turn tap off when brushing teeth).	Childrens' services	All staff Independent providers Foster carers	Reduction in water costs through more efficient use	Reduction in water usage across the children's homes	Water is available to all through efficient use and no waste	Existing budgets	Sep-20	County-wide
Water storage	Planting trees: increase shading, reduce temperatures, increase evapotranspiration, increase water infiltration, reduce speed of overland flows, improve biodiversity etc.	Highways (Commissioning) and Environment	Environment Agency, Local Planning Authorities, Natural England, Catchment Partnerships, Water Companies, Wildlife Trusts, Woodland Trusts, Forestry Commission	Economic / Social / Health	Monitor water consumption, water reserves, and water quality; Extent of tree planting achieved within vulnerable catchment areas	Levels of water consumption reduced	Public / Private partnership funding arrangement to be negotiated; Water Company investment programme	Ongoing	County-wide
Resilient natural environment									
Biodiversity/habitat preservation or restoration	Provision of data and specialist advice: to protect all remaining areas of priority habitat, and to restore and re-create new areas of native habitat and green infrastructure to improve overall resilience to climate change through being 'more, bigger, better, joined up'; ensuring a more permeable landscape of sufficient habitat connectivity and quality to facilitate species dispersal and adaptation as their climatic space moves, to improve capacity of land to absorb more carbon, and to provide cooling and improved air quality in urban areas	Environment	HCC as a major landowner & highway authority, through ecological advice and data from to HCC and other LPAs to ensure no loss of priority habitat and net gain in habitats and tree planting (where appropriate) through planning decisions and land/asset management, HBIC Partnership for surveying, mapping, designating priority habitats and opportunity areas alongside the statutory sites to develop the ecological network maps which inform the protection and restoration/re-creation of native habitats and other green infrastructure through spatial plans & strategies, planning decisions and land management.	Economic - more attractive place to live and work, Social/health - wellbeing - more accessible habitats & greenspace to visit, to absorb/spread recreational disturbance, improved water and air quality	<u>Area and type of priority habitat lost or gained?</u> <u>Favourable conservation status of SSSIs?</u> <u>Species counts/trends. See https://documents.hants.gov.uk/biodiversity/HBICAnnualBiodiversityMonitoringReport2018-19.pdf</u>	Biodiversity net gain Increased resilience to climate change	Capital schemes, Planning contributions, Water company investment programme, EA's catchment level funded improvements Environmental Stewardship	On-going, likely to accelerate with the Environment Act & Biodiversity Net Gain	County-wide
Biodiversity/habitat preservation or restoration	Contributing to the South Downs Joint Accord - preserving national parks and encouraging physical activity	Public Health	PHE, National Parks England	Health (increased physical activity), social (increased cohesion amongst people living in rural communities)			Not funded	ongoing	County-wide
Biodiversity/habitat preservation or restoration	Review Hampshire Minerals & Waste Plan to ensure restoration policies given suitable consideration to climate change resilience e.g. flood attenuation storage, green/blue infrastructure networks etc.	Strategic Planning	M&W Plan partners - PCC, SCC, SDNPS, NFNPA	Social and health benefits.	M&W Plan annual monitoring	Change in M&W Plan policy to ensure greater focus on climate change resilience		2021+	County-wide
Biodiversity/habitat preservation or restoration	Increased resilience through expanding and connecting habitats. Opportunities for nature recovery and rewilding identified. Adaptive and updated management practices reviewed through updated management plans. Adopted Pollinator Action Plan	CCBS	ETE, Planning Authorities, Defra and Natural England, National Parks, Wildlife Trusts, Forestry Commission, Environment Agency	Natural capital benefits in appropriately managed habitats are relatively cost effective and sustainable in the long term. Public awareness, support and action re: Pollinators	Biodiversity metrics 2.0 Natural Capital Accounting		Mitigation, offsetting and other natural capital funding. Targeted government funding under the developing Environmental Land Management Scheme (ELMS) underpinned by natural capital principles	started (to be completed by 2025)	County-wide
Biodiversity/habitat preservation or restoration	Re-wilding of Highway Verges (Planting wild flowers and the like)	Highways (commissioning) and Environment	District Councils - Via Agency agreements and Cultivation Licences. Skanska - Via the HHSC. Parish councils and other third parties via cultivation licences. HBIC for advice and RVEI programme	Economic - more attractive place to live and work,	Area/length of verge "re-wilded". Savings from not cutting, carbon reduction Number of RVEIs in special management	Reduce carbon emissions Enhanced biodiversity	Possibly from Highway Maintenance Budgets. District council funds. Third party funds.		County-wide

Project Area	Action	Service delivering	Partners	Co-benefits	Indicators used	Outcome	Funding mechanisms	Delivery start date	Emissions addressed
Biodiversity/habitat preservation or restoration	look at separating them out and crafting corridors of trees to filter pollutants from cars	Highways (Commissioning - Arboriculture) and Environment		Air quality	Measure lengths of footpaths constructed / diverted / separated away from roads	Health improvements		Started	County-wide
Biodiversity/habitat preservation or restoration	We have funded a green infrastructure scheme (see here: Solent Recreation and Mitigation Partnership)	Solent IEP							County-wide
Management of coastal habitats	Joint departmental / long term strategic planning to prioritise key sites for change including those holding the line, managed retreat etc. May include need for adaptation and mitigation measures on reserves and/or adjacent/local sites and coastal access. Long term strategy required.	CCBS	ETE, Environment Agency, DEFRA, Natural England, Eastern Solent Coastal Partnership, Solent IEP	Access to the coast providing health and social benefits.	Under consideration		Grant funding/ pump priming	started (to be completed by 2025)	HCC
Management of coastal habitats	Provision of data and specialist advice: to protect undeveloped areas of coastline & estuary from development; to allow 'managed retreat', 'managed realignment', and restoration/re-creation of coastal habitats, to allow habitats to 'roll back' and link to others to improve overall resilience through being 'more, bigger, better, joined up'; will reduce nitrates levels reaching coastal waters; and improve capacity of land to absorb more flood water and carbon. More natural habitats such as wetlands and woodland have the potential to soak up water and mitigate flooding elsewhere	Environment	HCC as a major coastal landowner, highway authority and LLFA, through ecological advice and data from ETE to HCC and other LPAs to ensure no loss of priority habitat and net biodiversity gain through planning decisions and land/asset management. HBIC Partnership for surveying, mapping, designating priority habitats alongside the statutory sites to develop the ecological network maps which inform the protection and restoration/re-creation of coastal habitats through spatial plans & strategies, planning decisions and land management	Economic - more attractive place to live and work, Social/health - more attractive and accessible for coastal visits/exercise - more habitat to absorb/spread recreational disturbance, improved water quality	Area and type of coastal priority habitat lost or gained? Favourable conservation status of SSSIs? Species counts/trends. See https://documents.hants.gov.uk/biodiversity/HBICAnnualBiodiversityMonitoringReport2018-19.pdf	Shoreline Management Plans are in place and responsive to biodiversity risks and opportunities	Planning contributions, Bird Aware Solent, Water company investment programme, EA's Flood risk management investment programme and catchment level funded improvements Environmental Stewardship	On-going, likely to accelerate with the Environment Act & Biodiversity Net Gain	County-wide
Management of coastal habitats	Understanding of impacts of sea level rise and climate change on the Hampshire coastline and landscape character areas.	Environment	RFCCs, Coastal Protection Authorities, EA, ESCP, Chichester Harbour Conservancy, Chichester Harbour Trust, LGA Coastal SIG, Southern Coastal Group and Standing Conference for Prolems Associated with the Coast	Economic / Social / Health	Landscape Character Areas shown as being at threat / resilient to climate change	Impacts of sea level rise and climate change on the Hampshire coastline and landscape character areas understood; Valued characteristics protected / managed / retained	Partnership funding arrangements	2021/22 and to tie into broader joint departmental / long term strategic planning	County-wide
Management of coastal habitats	Raise awareness and understanding of the impacts of Climate Change on the Solent and appropriate mitigation, resilience and adaptation measures (Solent Forum Business Plan: Objective 6)	Environment	RFCCs, Coastal Protection Authorities, EA, ESCP, Chichester Harbour Conservancy, Chichester Harbour Trust, LGA Coastal SIG, Southern Coastal Group and Standing Conference for Prolems Associated with the Coast	Economic, social, health, wider environmental benefits	Raised at Steering Group meetings. Members Meeting presentations and hot topics. Consultancy services.	Raised awareness of climate change amongst all Solent Forum members	Existing Budget	Ongoing.	County-wide
Management of coastal habitats	Collaborate on review of strategically important Shoreline Management Plans where significant infrastructure and HCC landholdings are implicated e.g. Hayling Island, Hurst Spit, Calshot etc	Environment and CCBS	Hampshire County Council; EA; landowners; parish councils and local communities	Economic, social, health, wider environmental benefits	Adopted Shoreline Management Plans	Shoreline Management Plans are in place that respond appropriately to climate change impacts and have partnership agreement	Existing Budget	2020/21	Both
Management of coastal habitats	Support Regional Flood and Coastal Committees for Southern, Thames and Wessex regions	Environment		Economic, social, health, wider environmental benefits	RFCC attended; RFCC resources secured for coastal issues in Hampshire	Regional Flood and Coastal Committees have good awareness of Hampshire issues and support is secured to achieve a resilient natural and built environment with regards to flood and coastal erosion	Existing Budget	Ongoing	County-wide
Resilient trees	Increase appropriate standard tree planting Highway and non-highway land)	Highways (Commissioning) and Environment	District and Parish Councils - subject to collaboration and specific joint authority agreements (mechanism to be established)	Economic - more attractive place to live and work, Social/health - wellbeing - more accessible habitats & greenspace to visit, to absorb/spread recreational disturbance Urban cooling, shading, flood attenuation	Tree numbers. Canopy cover percentages (of particular areas and the county as a whole)	Reduce carbon emissions	Highway tree Compensation (CAVAT valued) and Capital receipt funding.	Started	County-wide

Project Area	Action	Service delivering	Partners	Co-benefits	Indicators used	Outcome	Funding mechanisms	Delivery start date	Emissions addressed
Adaptive management of rural estate	Adaptive management practices, review of cropping, livestock type and disease resistant varieties / breeds / crops. Animal health status set up.	CCBS	Trading Standards, Natural England	Improved animal health / zoonotic control. Public health.	Healthy Farm RAG Status		N/A	started (to be completed by 2022)	HCC
Highways vegetation	Cut and collect trails of grass verges.	Highways (commissioning)	Skanska - via HHSC	Social and health benefits.	Number of verges utilising cut and collect.	Generate energy from green waste through biomass process	From long term savings produced by reduced cutting		County-wide
Highways vegetation	Ensure sufficient resources are in place to secure management, maintenance and benefits of ecosystem services i.e. new planting and grass, for at least a period equivalent to that required in planning approval.	Highways (Commissioning) and Environment		Economic, social, health, wider environmental benefits	Extent of new planting successfully established	Ensure new planting/grass is maintained to ensure its survival and planning obligations met	Capital	Ongoing	County-wide
Flood and water management	Publication and application of new Local Flood and Water Management Strategy and surface water policies to ensure development is designed to reduce flood risk i.e. Policies written to ensure that only developments which can prove they have enough attenuation on site for a 1% probability rainfall event plus a 40% upgrade for climate change (guidance from EA re percentages for different sites – anywhere between 20 and 40%); Undertake research for Defra (current).	Environment	Local Planning Authorities; developers; consultants; Defra; RFCC	Economic, social, health, wider environmental benefits	Local Flood and Water Management Strategy, and Defra Surface Water Management research published	Policy Change	Existing Budgets	2020/2021	County-wide
Flood and water management	Develop 18 prioritised Catchment Area Action Plans - Working with communities to highlight flood and water management issues; Support for Parish Lengthsman schemes	Environment	Emergency Planning, Catchment Partnerships, RFCCs, EA, Defra, districts. Coastal Protection Authorities, ESCP , parish councils	Social, health and wider environmental benefits	Catchment Area Action Plans published	Policy Change	Internal; External - partnership funding	started	County-wide
Flood and water management	Promote delivery of biodiversity, tree planting programmes and landscape enhancement to support flood risk reduction outcomes; Use of landholdings for flood attenuation; online storage, reed bed systems (flood attenuation and filtration) e.g. Education Estate, County Farms, Country parks etc; application of Natural Flood Management principles e.g. Watercress and Winterbournes project.	Environment	RFCCs, EA, Catchment Partnerships, CCBS	Social, health and wider environmental benefits	Flood risk reduction measures implemented	Flood resilience improved	Local levy; CIL	Started	County-wide
Flood and water management	Implement and adopt Sustainable Drainage Systems (drainage hierarchy) to reduce flood risk, reduce maintenance and increase ecology and biodiversity. Promote better management / control through policies in new Local Flood and Water Management Strategy and Catchment Management Plans.	Environment	Developers, consultants, local planning authorities	Social, health and wider environmental benefits	Number of SUDS implemented, adopted and in successful management	Flood resilience improved and Policy Change	Development; Capital Programme	Started	County-wide
Flood and water management	Refresh and relaunch Hampshire Strategic Flood and Water Management Partnership Board as annual FWM conference	Environment	EA, RFCCs	Economic, social, health, wider environmental benefits	Number of RMAs and partners engaged	Improved coordination and collaboration amongst RMAs and partners	Internal;	2020 / 2021	County-wide
Flood and water management	Advising riparian owners on maintaining and managing watercourses; Regulation and consent for work on Ordinary Watercourses	Environment	Parish Councils, Flood Action Groups	Economic, social, health, wider environmental benefits	Reduction in number of unconsented works	Improved awareness of riparian responsibilities, enhanced management of watercourses for flood resilience	Internal; Statutory charges	Ongoing	County-wide
Flood and water management	Plan, develop and deliver flood risk and coastal defence schemes	Environment	EA, Defra, RFCCs, district councils	Economic, social, health, wider environmental benefits	Flood and coastal erosion risk management measures implemented	Flood resilience improved	External - FCERM; Local levy; CIL;partnership funding. Internal;	Ongoing	County-wide
Flood and water management	Review of Hampshire Minerals & Waste Plan to ensure steady and adequate supply of aggregates to ensure availability of material for flood event materials e.g. sand bags, beach replenishment etc.	Strategic Planning	M&W Plan partners - PCC, SCC, SDNPS, NFNPA	Social				2021+	County-wide
Flood and water management	Develop countywide Green and Blue Infrastructure Strategy integrating Ecological Network mapping and Nature Recovery Networks etc	Environment	Districts, PFSH	Economic, social, health, wider environmental benefits	Countywide Green and Blue Infrastructure Strategy published	Biodiversity net gain; ecosystem services improved; Increased resilience to climate change	Partnership funding	2021/2022	County-wide

Project Area	Action	Service delivering	Partners	Co-benefits	Indicators used	Outcome	Funding mechanisms	Delivery start date	Emissions addressed
Landscape	Develop and implement Tree Strategy including 1 million trees on the Highways project.	Environment	Woodland Trust; Forestry Commission	Economic, social, health, wider environmental benefits	Tree numbers. Canopy cover percentages (of particular areas and the county as a whole)	Biodiversity net gain; carbon sequestration; Increased resilience to climate change	Internal	commenced	HCC
Resilient communities									
Community planning and resilience	Emergency planning for a range of events that may occur secondary to climate related adverse weather conditions that can impact on health such as: heatwaves; cold weather; mosquitos; ticks; and flooding. This also encompasses providing information about the physical and mental health effects of emergencies such as flooding.	Adults' health and care/public health	Local resilience forum	Health (to protect from physical and mental harms of adverse weather events)			Not funded	ongoing	County-wide
Community planning and resilience	Working with Portsmouth City Council to invest in the Southsea Flood Protection scheme.	Solent IEP							County-wide
Community planning and resilience	Plans include measures to mitigate effects of global warming such as extreme weather and personal resilience	Adults' health and care/public health	All HCC Depts	Wider awareness, cultural change, improved wellbeing	Response learning Sickness absence		Business as usual budget	Apr-21	County-wide
Community planning and resilience	Meals on Wheels service delivering hot nutritious meals who need support to manage and maintain nutrition. Procedures in place to deliver accessible meals to these individuals even in severe weather and highlight if support is required from local friends or relatives	Adults' health and care/public health	Local resilience forum	Supporting customers to manage and maintain their nutrition has significant health benefits. In addition, the interaction with the driver provides social contact and the opportunity to carry out a wellbeing check, with any concerns raised and addressed. Action taken to address loneliness where identified	No. of individuals receiving meals, particularly during severe weather. % health and wellbeing checks carried out		Not funded	2013. Current contract started 1/10/18	County-wide
Community planning and resilience	Visits are prioritised according to need and risk Business continuity plans are updated regularly for priority services Alternative, flexible working arrangements are embedded so more local travel is possible Where appropriate, other methods of contact such as Skype are used to engage with families	Childrens' services	Children and families Staff Foster Carers	Reduction in travel costs Children's wellbeing is promoted through contact via digital methods where physical contact is not possible Children remain well	Business continuity plans Risk is known and responded to by priority	All children are safe	Existing budgets	Mar-20	HCC
Health	Develop Air Quality Management Plan including working with schools, workplaces and communities to raise awareness of air quality issues and what can be done to reduce exposure to pollutants through the routes taken, green walls, turning engines off and so on.	Strategic Transport	Schools, businesses, Public Health, District Councils, SCC, Sustrans, Southampton Environment Centre, Winchester Science Museum, Winchester University, Winchester School of Art, Living Streets	Physical health, mental health, congestion, air quality, life skills, road safety, carbon reduction, efficient and cleaner vehicles,	NO2 and PMs		Public Health, DEFRA Clean Air Zone (CAZ) grant, DfT Access Fund		County-wide
Health	Education of carers and staff to ensure appropriate use of sunblock and increased fluid intake	Childrens' services	Foster Carers Children & Families Staff	Children remain well	Case management information	No children experience sunburn and heat exhaustion	Existing budgets	Mar-21	County-wide

Project Area	Action	Service delivering	Partners	Co-benefits	Indicators used	Outcome	Funding mechanisms	Delivery start date	Emissions addressed
Health	Reduce exposure by i) using more efficient protective clothing ii) consider greater use of evening/overnight working in summer months.	Highways (commissioning)	Supply chain	Reduced risk to health of outside workforce	Measure H&S reports regarding sunburn & over-exposure	Health of workforce, fewer sun-related lost time incidents	Existing budgets		HCC
Energy efficiency and reduction	A freephone advice line and online advice service. Providing straightforward advice about climate change and sustainability, including energy efficiency and home insulation, to support communities involved with the Greening Campaign	Climate Change	The Environment Centre	Cost savings, health, social	Number of residents assisted by advice line	Residents are aware that they can contact The Environment Centre for trusted advice about climate change and sustainability so they know how to transition towards a low-carbon future.		Jul-20	County-wide
Community energy	Supporting and enabling local communities to be more energy efficient and to build their own capacity for renewable energy by establishing a Community Energy Network across Hampshire. A pilot project will find start-up projects for community groups	Climate Change	Community Energy South	Cost savings, health, social	Number of households/community groups involved in community energy network. Carbon savings	Enabling local communities to build their own self sustainability capacity to achieve on-going, ground level emissions reductions.		Jul-20	County-wide
Community energy	Solar Together group buying scheme. Providing the opportunity for selected homeowners and small to medium businesses to buy high quality solar panels at a highly competitive price. Reverse-auction scheme which usually favours local suppliers	Climate Change	iChoosr	Cost savings, health, social	Number of installations of solar. Carbon savings	An increase in solar panels installed for homeowners, increasing renewable energy generation in Hampshire		Jul-20	County-wide
Behaviour change	Greening Campaign - supporting community groups, via parish councils, progress through a series of phases to make carbon savings in their homes and within communities. Each Phase contains an Information Pack, on-line resources, videos and supports residents by email. Training is also provided.	Climate Change	Greening Campaign (Teresa Plowright) - District/Borough/Parish Councils	Cost savings, health, social	Number of community groups signed up. Estimated carbon savings	Supporting community groups take action to make carbon savings in their homes and within communities		Mar-20	County-wide
Residential homes	Providing input into local plans including the design of new build homes and their heating, cooling and ventilation systems as well as influencing the role of community development workers and how this may link with emergency planning	Planning and Environment	Hampshire LPAs	Health (to ensure housing is designed to be healthy)				ongoing	County-wide
Residential homes	Conducting a healthy homes needs assessment which includes considering whether homes are fit for purpose and environmentally sustainable			Health (to ensure housing is designed to be healthy)				ongoing	County-wide
Resilient businesses & green economy									
Investment	Published Infrastructure Investment Plans for Gosport and Isle of Wight, which consider climate change adaptation (see: https://solentlep.org.uk/media/2543/gosport-infrastructure-investment-plan-feb-2019.pdf and https://solentlep.org.uk/media/2324/15735-iiip-final-report-300518.pdf) Recently commissioned an Infrastructure Investment Plan for Havant Borough, and shortly to commission one for New Forest District	Solent lep							County-wide
Skills	Initiate roundtable discussions with key business leaders to discuss their role in working with us to maintain local economic resilience whilst adapting to climate change impacts and putting in place preventative and mitigating measures. Engage with FSB and Chamber of Commerce and others to reach SMEs	Economic development	Business South, Hampshire Chamber of Commerce, Federation of Small Businesses, Institute of Directors, Hampshire Fare, Local Enterprise Partnerships, Local Authorities, New forest and South Downs National Park Authorities	Businesses are able to continue to operate and or adapt operations without adverse impact on or disruption to the business, staff and customers	Number of businesses engaged and adopting new practices and investing in relevant equipment, processes and skills	Higher proportion of businesses aware of the adaptations they can make, the support that they can get and the benefits these offer the business. Behaviour and investment change	To be determined	Autumn/Winter 2020	County-wide

Project Area	Action	Service delivering	Partners	Co-benefits	Indicators used	Outcome	Funding mechanisms	Delivery start date	Emissions addressed
Skills	Encourage businesses, through our partner networks, to recognise the longer-term benefit and business sense of adapting to lower dependency on fossil fuel energies, adopting rainwater harvesting, switching off the lights, etc.	Economic development	Business South; IOD; Make UK; Hampshire Chamber of Commerce; Federation of Small Businesses; Hampshire Fare.	Businesses become more resilient to potential climate change impacts, save money in the longer term to re-invest in the business and continue to serve their customers and retain staff	Number of businesses engaged and taking positive action	Progressive increase in businesses across the county adapting behaviour and proactively taking measures independently or with support to become more resilient	WRAP, Carbon Trust, Innovate UK, LoCASE project - others	Autumn/Winter 2020	County-wide