

Appendix 1 - Draft Climate Change Delivery Plan

Sector	Headline target	Programme/project	Description	Status	Projected carbon reduction (TCO2 p/a) [initial estimate]	Total carbon reductions TCO2 (over project lifetime)	Cost	Cost per tonne of carbon saving (lifetime)	Assumptions
All sectors	Net zero carbon by 2050	Greener Futures Investment Multiplier Framework	Creating a Climate investment multiplier framework to develop a pipeline of investable projects and programmes (Renewables, retrofit, natural capital, new development and infrastructure) SCC makes best use of its funds by using them to attract or leverage-in investment from the community (through green municipal bonds, crowd funding etc) or from grantf funding or institutional investors through a Surrey low carbon investment prospectus.	Being explored by University of Leeds and SCC. This will be the financial mechanism to deliver the whole programme.	Estimate to be included for June delivery plan following baseline production				

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Organisation emissions	Net zero carbon For Surrey's organisational emissions by 2030 or sooner	Street lighting LED conversion	Converting 89,000 street lights to LED.	In progress, due to be completed 21/22	6,200	124,000	£19,900,000	£160.48	Assumptions to be provided and reviewed. Based on estimate provided in cabinet report (January 2018). The conversion to LED will reduce annual electricity consumption from 21.3 million kWh down to 8.3 million kWh. This saving of 12.7 million kWh translates to a saving of around 6,200 tonnes of carbon dioxide each year. Lifetime is assumed to be a minimum of 20 years.	
		Decarbonising SCC corporate estate (McBain)	Focused on energy efficiency gains from better management	In progress, data available from March onwards	Estimates and Modelling available March /April					
		Decarbonising the corporate estate (PSDS)	£1.9m Salix funding for a number of measures for highest emitting buildings - includes solar and air source heat pumps. Ameresco estimates provided.	Funding awarded, more data/design over coming months		255	3,766	£1,900,000	£504.51	Assumptions to be provided and reviewed. Finalised list of buildings to receive measures under review. Funding may be cut to £1.6m. Based on estimates provided in the public sector decarbonisation scheme calculations, based on estimates of measures in 10 buildings.
		Decarbonising SCC fleet	Exploring decarbonising SCC own fleet. EST are providing fleet review.	Fleet Manager will start 1 April to lead work on fleet purchase and vehicle	Estimates to be provided following baseline development					
		Decarbonising SCC's supply chains	Reducing SCC's emissions from our contractual services by working with supply chains through procurement and contract management processes.	Carbon reduction to be produced by end of 2021, then produce carbon reduction target. Carbon reduction from highways contract expected to be	Estimate to be included for June delivery plan following baseline production					
		Decarbonising Surrey's Schools	Providing resource to enable schools to identify decarbonisation measures which will lead to carbon and energy cost savings and access funding from Salix	Recruiting post		2490	34739	£16,976,071	£488.67	Assumptions to be provided and reviewed. Projects are subject to funding outcome and finalised schools list. Based on energy efficiency measured proposed as part of low carbon skill fund application led by Ameresco. Projects include LED, controls, PV, insulation and heat pumps across 25 schools. Safety
		Estate consolidation programme - travel planning	Travel planning for employee commuting to new offices and agile working patterns	Analysis/ travel planning in progress	Estimate to be included for June delivery plan					
		Estate consolidation programme - building efficiency	Decommissioning of county hall, estate review and new offices (e.g. Woodhatch)			850	7650			Assumptions to be provided and reviewed. Calculations are for decommissioning only and will include replacement offices when data is available. Based on estimates provided in Surrey's Agile Office Estate Strategy, which states the environmental benefits of closing county hall as 804 tonnes pa. However this does not currently factor in new offices or increases in energy consumptions of home offices. Project lifetime is 1 year but savings remain every year so lifetime is given as to 2030 (in line with SCC's net zero target)

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Transport and air quality	60% emissions reduction in the Transport sector by 2035 against BAU as a minimum	Design Principles for SCC developments	Set standards to ensure new developments will not increase carbon emissions	TBC					
		Active travel schemes		£6.2M awarded to deliver 10 schemes in the county	Data to be included in June Delivery Plan following establishment of baseline				
		LCWIPS	This will inform future active travel schemes						
		Ultra low emission bus scheme	TBC until commissioning and procurement confirmed. No information at present on the number or type of low emission vehicles.	Cabinet approved the scheme in Dec 20.	Estimate to be produced in second half of 2021 once schemes are confirmed				
		EV infrastructure pilots	OLEZ funded scheme funding EV infrastructure in 4 B&Ds		Data to follow				
		Electric vehicle infrastructure roll out	SCC is seeking to deliver a large scale roll out of EV infrastructure on public highway across the county to meet the demand resulting from the ban on petrol and diesel vehicles.	Strategy is being finalised and will be published in Sept 20	Data to follow				
		Local Transport Plan 4 (LTP4)	Consultants to review and refresh the LTP to focus on decarbonising the transport sector emissions in Surrey along with other accompanying policies to promote active travel	Draft Apr 21 with full public consultation and approval by Dec 21	Future carbon reduction transport programmes to be included in delivery plan				
		Rethinking transport pilots	A number of Transformation funded pilots which explore solutions to reducing congestion and emissions from transport - NB these are on hold due to COVID at present - projects are TBC.	Funded for 20/21	Pilot programmes are to be confirmed				

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Energy generation	15% of energy from solar PV by 2032	Renewable energy from Eco Park	Renewable energy produced by anaerobic digestion plant and gasifier	Ongoing	TBC following meeting on 23 Feb				
		Solar Together scheme	Letters sent out to residents for scheme which they can register for, then a rigorous process of identifying and assessing suitable suppliers. No financing is offered to residents at present.	Mail out to residents. Aiming for roll-out in summer.	492	12,307	£30870 - £36,015	£2.93	Assumptions to be provided and reviewed. Estimate may change as project is finalised. Based on provisional estimates from solar together emissions model. Number of households reached tbc - model assumes 105,000 letter sent and 1tCO2 saved per installation. Estimates are provisional and must be confirmed with Solar Together.
		Solar PV array and battery storage	5MW solar PV array and battery storage	Suitable site being identified through Land Assessment by Buro Happold	1,325	39,779	£5,000,000	£125.69	Assumptions to be provided and reviewed. Estimate will be updated as further data is provided. Based on estimates provided in Trumps estate feasibility study. Using estimates for 5MW solar PV - sleeved PPA to SCC which calculates 4,911 MWh/year and 30 year asset life. Savings calculated based electricity grid factor from DEFRA factors
		Solar or wind installation	TBC	Pipeline budget for 2024/25	1,325	39,779	£5,000,000	£125.69	As above.

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Housing and planning To create low carbon, healthy homes for our residents that reduce emissions, have lower running costs and improve the wellbeing of our community	66% emissions reduction in the domestic housing sector by 2035 against BAU as a minimum	Green Homes Local Authority Delivery (GHLAD)	Government funding is available for energy efficiency and low carbon measures for low income households living in in-efficient housing (EPC E,F,G). A consortium bid has been submitted and will be delivered by Action Surrey if successful. SCC is a named partner along with 10 of the B&Ds.	£6M awarded for GHLAD 1a currently being delivered as Green Jump Surrey with 10 B&Ds. An additional £3M awarded to the consortium. Additional £3M GHLAD 2 will be allocated to Surrey in 21/22	2,605	Project lifetime not yet available.	£15,000,000		Assumptions to be provided and reviewed. Recalculation will be carried out when data is available from GHLAD by June update. Based on GHLAD model of SCC match funding - based on £15m funding across D&Bs, split equally across 4 home improvement measures (acknowledge actual split may not be equal). Match funding of £3.75 million leads to the following installations: 288 solid wall (external), 507 solid wall (internal), 375 air source heat pumps and 277 ground source.
		Private sector decarbonisation loan scheme	Interest free decarbonisation loans offered to private sector landlords to encourage carbon savings and energy bill reductions.	Funding included in capital pipeline					
		Urban Design Strategy	The Surrey Futures Partnership is developing an Urban Design Strategy which will include a climate change guide to inform planning decisions. In addition, a Developers Forum is being established which will be a useful tool to influence decisions around development and environmental issues.	In progress					

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Buildings and infrastructure	61% emissions reduction across commercial and public buildings sector by 2035 against BAU as a minimum	Low Carbon in the South East (LoCASE)	An EU funded programme offering training and grants for energy efficiency and low carbon measures to SME businesses. Surrey to administer on behalf of B&Ds.	Funding awarded, expected to start Oct 2020	1334	4,002	£316,234	£79.02	Assumptions to be provided and reviewed. Based on original proposal document, includes 502 enterprises receiving support for energy efficiency and renewable energy use plus 512 enterprises receiving support, 79 new enterprises created, 55 co-operating with research entities and 89 enterprises supported to introduce new to the firm products through funding for innovation and adoption of low carbon technologies. Based on 3 year project timeline.

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Waste, resources and circular economy	70% of all local authority collected waste reused, composted or recycled by 2030	Reuse and food waste reduction campaigns	Resident focussed campaigns aimed at reducing waste at source through consumer behaviour and to increase the proportion of waste that is reused or recycled, including food waste.	SEP to deliver in 20/21	Baseline available from March and potential savings from schemes from March onwards				
		Materials Recovery Facility (MRF)	A site has been identified for an MRF to improve quality of recyclates and reduce quantity of items going to landfill	Business case in development	TBC - requires feasibility results				

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Land use and food systems	1.2 million trees planted by 2030	New trees planted in 20/21	SCC to plant 50,000 trees in an area of new woodland in 20/21. CO2 savings are estimated across 40 year life of trees	In progress, suitable areas of land are being considered	N/A	N/A			Indicative estimate only. Based on Ashden 31 climate actions for councils who estimate 22kg of CO2 absorbed each year by trees. Assuming 120,000 trees planted each year. Improved estimates which account for type and age of trees to be provided in June Delivery Plan, subject to data availability.
		Land Management Framework	A framework is being produced to ensure that decisions made by SCC and external partners in Surrey considers and maximised opportunities for a range of benefits including climate change mitigation and adaptation.	In progress, to be completed by March 21	To follow in June Delivery plan				

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Industry and green economy	56% emissions reduction across industry by 2035 against BAU as a minimum	Assessment of Surrey's green economy	Consultants will assess the ability of Surrey's green economy to meet the expected surge in energy efficiency and low carbon markets and will recommend how SCC can stimulate supply chains.	Expected Oct – March 21	To follow in June Delivery plan				
		GH LAD (see above)							
		LoCASE (see above)							

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