



SURREY
COUNTY COUNCIL

Surrey's Greener Future

2030 AND 2050 CLIMATE CHANGE ASSESSMENT DRAFT FINDINGS 2023/4

Overview

This slide pack summarises the draft findings of the **third progress assessment** of Surrey's Climate Change Delivery Plan 2021-2025, and Surrey County Council's 2030 organisational emission target. The full report will be submitted for Cabinet consideration in November 2024. **Data collection and analysis are still ongoing, so gaps will be highlighted in pink.**

This report highlights that we **remain on track to meet both the Council's 2030 targets, and Surrey's 2050**, but there are significant challenges ahead to scale up action to reduce emissions in a financial environment that has never been more challenging for residents, businesses and the public sector. *(Annex 2 - Slides 21-29)*

Residents remain extremely concerned about climate and environmental issues, as highlighted in the latest Council residents survey where **68% of residents think it is important or very important for to prioritise climate action**, and only 5% think it is not important. Our actions, working with key partners, have resulted in **huge benefits under all four strategic priorities**– to support those most in need (through our **fuel poverty** programme and retrofit grants), making it possible for residents to afford to **reduce their energy consumption** (through Solar Together), **get skilled in jobs** that are needed to create a low carbon transition (through subsidised courses), **businesses to decarbonise** and diversify (SME grants) and allow pupils to **walk and cycle safely to school** (cycle training, and feet first) and be empowered to take action on the environment (Eco schools), plant trees and much, much more. *(Annex 3 - Slides 30-40)*

Since the declaration of a climate emergency in 2019, a lot has changed to **increase delivery challenges while at the same time increasing the need to ensure that we are fully meeting the no-one left behind agenda**. Covid has increased the number of people in need of improved physical and mental health, challenges to the economy and energy price raises have resulted in a 26% rise in fuel poor and many residents are under more financial pressure. Despite strong support for climate action, more opposition for active travel schemes and the fact Local Councils are in a serious financial position increases the challenge.

We recommend for the coming year, the **development of the next 5 year plan (2026-2031),-that puts communities and businesses at the heart of the plan**, where Local Authority actions are prioritised to have the greatest impact for the environment, health, jobs and communities maximising external funding.

Progress against net-zero targets



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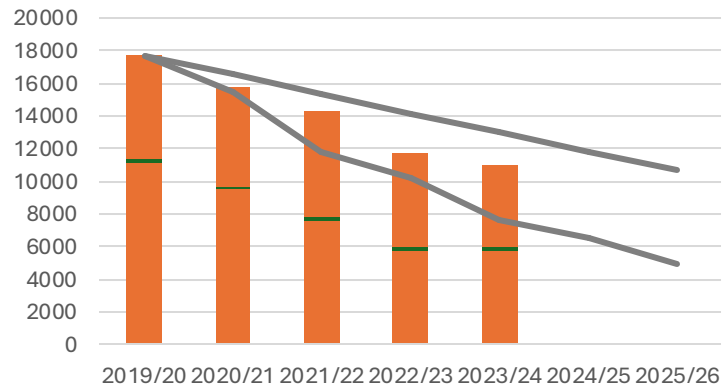
The Council's 2030 targets, and Surrey's 2050 remain on track, but there are significant challenges ahead to scale up action to reduce emissions, in a financial environment that has never been more challenging for residents, businesses and the public sector.

Surrey County Council



On track, with risk of going slowing in future if some projects do not scale up.

Total Emissions (tCO₂e)

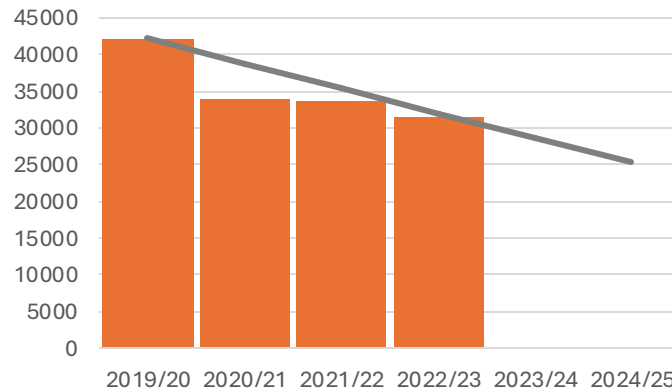


Local Authorities



On track, with high risk of going off track without significant further funding.

Total Local Authority Emissions (tCO₂e)

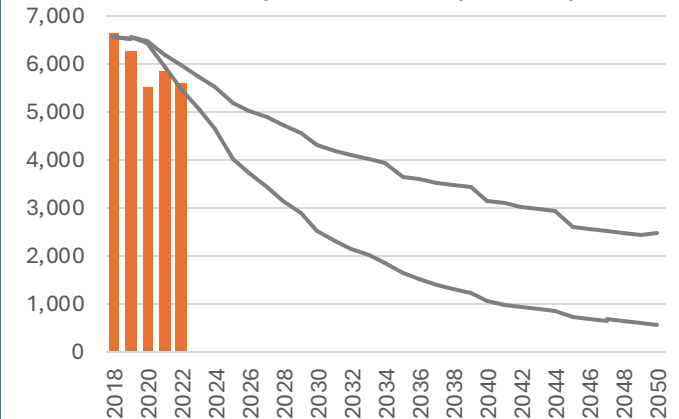


Surrey



On track, but Surrey-level indicators show a high risk of going on track.

Surrey's Emissions (ktCO₂e)



The area between the two grey lines on the graph represents a range of possible trajectories to meet net-zero based on what is considered to be technically possible.

Surrey County Council's 2030 - progress



Progress and successes:

The Council's 2030 targets remains on track. The Council's direct emissions have reduced by 38% compared to an expected reduction of 40-69% by 2025/6. (slide 22)

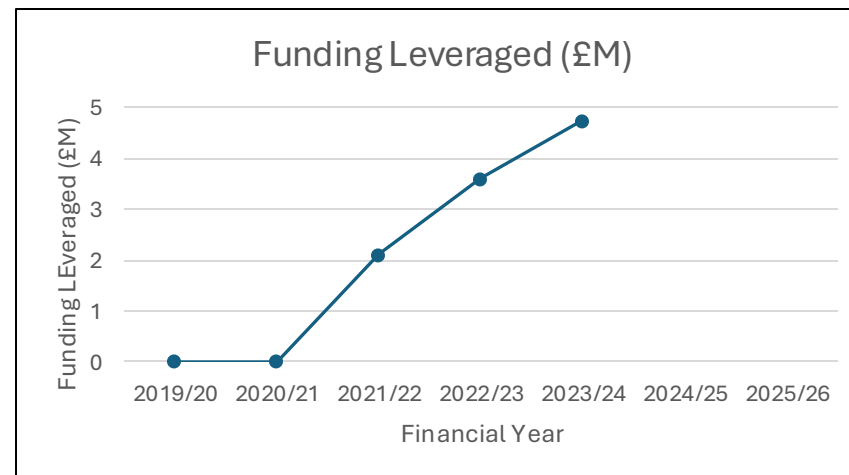
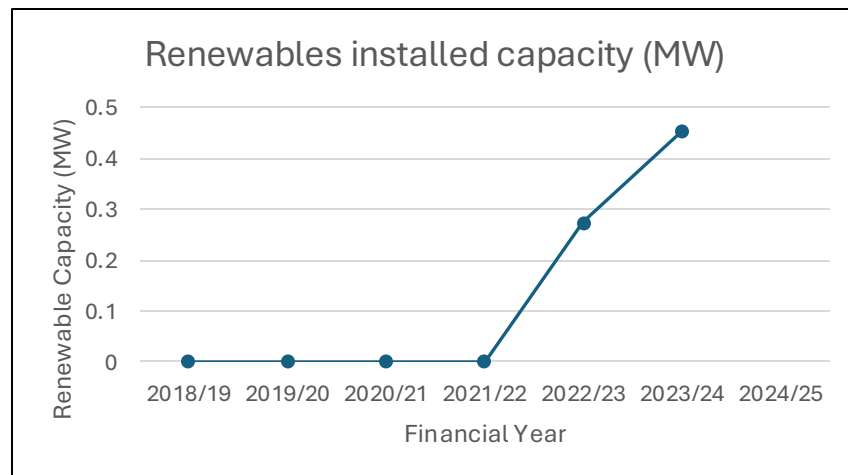
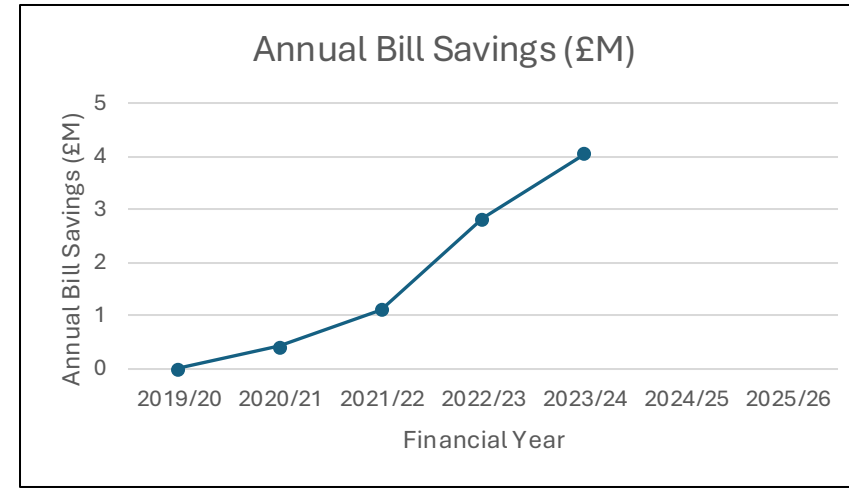
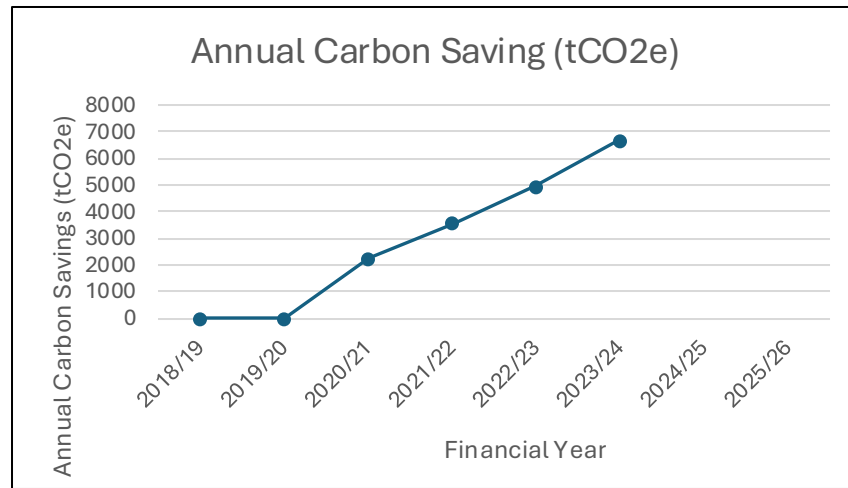
This is mainly due to the success of the **streetlighting** LED replacement programme which has delivered a 75% reduction in carbon emissions (slide 24). Other successes include the continuation of the **building retrofit** programme (slide 25), which has treated 6 buildings with a further pipeline of projects and funding to part-fund the works. Significant progress has been made in reducing indirect emissions through the implementation of a **sustainable procurement policy** (slide 28) and other activities to embed Greener Futures objectives into **all service areas**.

In addition to achieving carbon savings of **6.7kt carbon per year** the plan also brought about **bill savings of over £4m per year**, and **0.5MW additional solar** onto the estate. This has been part funded by **£4.5M of external funding**. (Slide 5)

Surrey County Council's 2030 - Benefits



For the 2030 target, actions to decarbonise street lighting and buildings emission delivered a **carbon reduction of nearly 6.7kt carbon per year** which also brought about **bill savings of over £4m per year**, and 0.45MW additional solar onto the estate. This has been part funding by £4.5M of external funding.



Surrey County Council's 2030 - Recommendations



Risks, challenges and recommended areas of focus for the Council's 2030 target in 2024/25:

- (1) **Delivery of the Council's rooftop solar:** With higher barriers to delivering ground-mounted solar, the delivery of Solar PV on rooftops is essential to reduce our dependency on high energy prices, pay back borrowing and offset carbon emissions that are technically unfeasible or prohibitively expensive to decarbonise. **Focus in 2024/25:** officers are developing a programme of solar rooftop schemes for SCC which will be brought to Cabinet in November and are continuing to explore opportunities for ground mounted solar. (slide 25)
- (2) **Decarbonising the Council's fleet:** delays in installing EV charging infrastructure has slowed our ambitions to decarbonise the Council's 487 vehicles. Council's policies and staff travel plan have not yet been updated to reduce travel emissions in line with our targets. **Focus in 2024/25:** to accelerate EV chargepoints for key Council sites, responsibility for delivering EV infrastructure will now sit with Greener Futures, in collaboration with Land & Property and will be delivered alongside the estate decarbonisation programmes.
- (3) **Further decarbonisation of buildings:** with a pipeline of projects to retrofit "easy to treat" many of which will not be eligible for PSDS and will be affected by decisions on future building rationalisation and dependent on arrangements with the new facilities management contractor. **Focus in 2024/25:** Consultants Arup have been commissioned to produce costed options for the delivery of the estate decarbonisation programme to 2030 and beyond. This work is expected to be included in the Climate Change Delivery Plan 2026-2031. In addition, there is an opportunity to roll out the recently-trialled low-carbon new-build policy.
- (4) **Offsetting, staff behaviour and indirect emissions:** Actions have prioritised the reduction of key direct sources of carbon emissions. This has been essential to ensure that complex long-term decarbonisation projects are enacted, but has also left gaps in the plan. **Focus in 2024/25:** We will continue to provide training and policies for Council staff to deliver low carbon and environment outcomes alongside key service provision, targeting the areas such as financial decision-making and infrastructure which can have the most impact. Key areas such as offsetting and indirect emissions will be important areas of focus in the next Climate Change Delivery Plan 2026-2031.

Surrey's 2050 net-zero target - progress



Progress and successes:

Surrey's 2050 net-zero target remains on track, with a 16% reduction in carbon emissions against an ambition of 20-40% reduction by 2025/6.

For the 2050 target, actions across the 9 areas of the report (fuel poor, households, active travel, public transport, businesses, communities, place-making, land management and Local Authority targets) have resulted in **30,000t carbon savings, £18M of annual bill savings for residents, business and the public sector** and over **14MW solar** – equivalent to powering 9,000 homes. This was possible through leveraging **£70M of funding through grants and private sector funding**. (Slide 8)

With £0.9M of funding, the **Fuel Poverty programme** has increased services. In addition the continuing success of Warm Welcome Services which providing home visits, winter essentials and energy advice, the fire service and the Home Energy Advice Taskforce have increased home energy advice to help reduce bills.

Actions to **support household retrofit** for all residents has also increased. This includes another successful round of **Solar Together** to help residents to purchase more affordable solar panels, which reduces their reliance on volatile energy prices – lower bills.

The award winning actions to **improve green skills** in Surrey have helped hundreds of people to go on a variety of green skills courses, which increases their job prospects, and helps fill the skills gap by creating new green jobs.

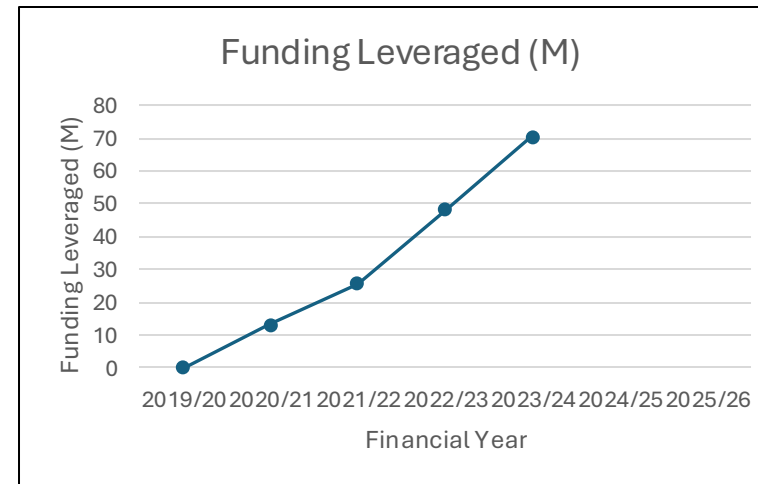
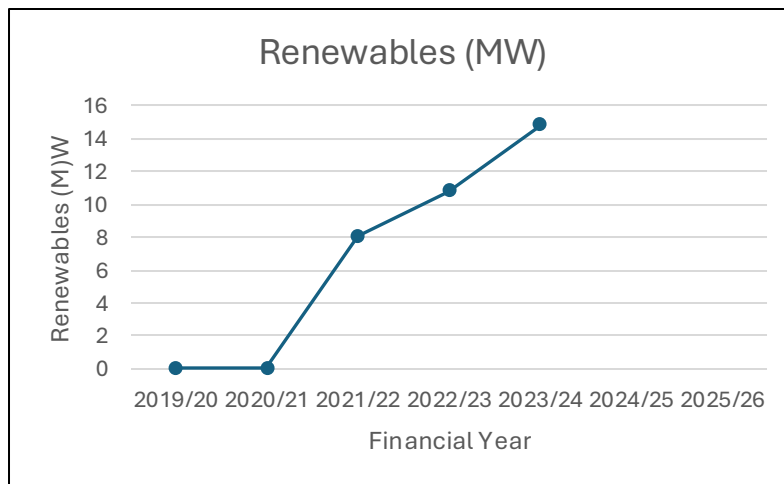
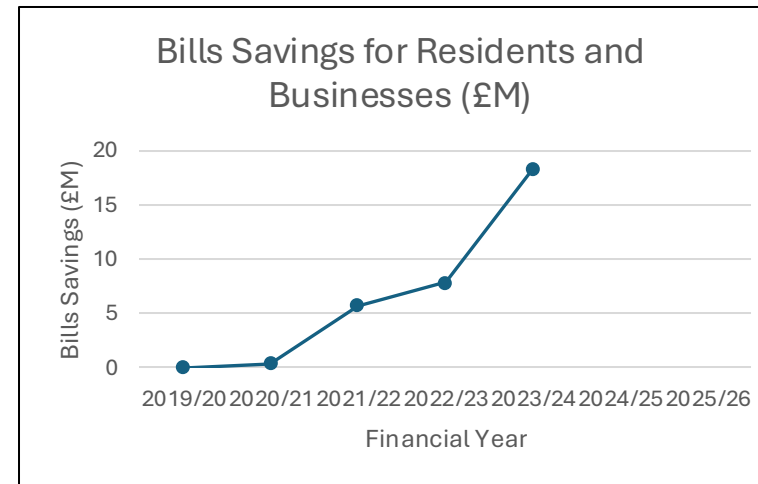
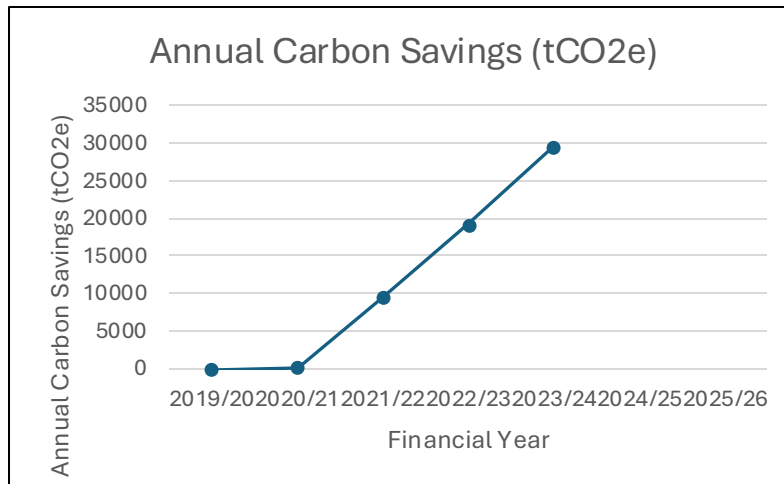
There has been a **substantial increase in community engagement and support**, which has resulted in 98 schools with green flag status (the highest in the country) many pupils trained in cycling and walking, new recruits to the Betterpoints app, successful Council-Community collaborative projects, and increased readership of the Surrey's Greener Futures communications.

Increased **tree planting** for the 1.2M tree target, improved **land management** on Council land, the launch of **Surrey Adapt** and the developing **Nature Recovery** Strategy has expanded our focus on improving biodiversity and resilience in Surrey.

Surrey's 2050 net-zero target - benefits



Local Authority investment and an additional **£70M of funding leveraged** has increased **carbon savings to 30,000 tonnes**, **renewable energy to 14 MW** and **bill savings of around £18M per year** for residents, businesses and the public sector.




Please note that we have not finished collating benefits so these numbers may improve

What difference the plan has made to Surrey



The plan does not just support carbon emission reduction, but results in positive outcomes **under all four strategic priorities** - making it possible for residents reduce energy, get skilled in jobs, businesses to decarbonise, allow pupils to walk and cycle safely to school, be empowered to take action on the environment, plant trees and much, much more. Some examples are provided below (more details in slides 19-41)


Page 39

Growing a sustainable economy so everyone can benefit 

259
Businesses have benefitted from grants to reduce costs and be more sustainable

507
Subsidised retrofit skills courses to fill the green skills gap


New service
To support businesses to develop, including on sustainability

Tackling health inequality 

1264
fuel poor households treated with insulation and PV, reducing bills.

68,286
Visitors to 84 warm welcome services and energy efficiency advice


580
Households received free home energy surveys and advice

Empowered and thriving communities 

2177
Households participated to purchase solar panels, reducing bills.

31,969
Pupils received cycling and walking training, building confidence for active travel.

2802
Active travel users being rewarded through the Betterpoints app

Enabling a greener future 

558,267
Trees planted, absorbing carbon and providing climate resilience

TBC
Woodland under improved sustainable management, improving biodiversity

New service
Being developed to support biodiversity and nature recovery

What difference the plan has made to Surrey

Since the start of the plan, our actions, working with key partners, have **improved the lives of many residents, businesses communities and public sector**. Some examples are below but more testimonials and case studies can be found on slides 12-20.

Solar Together: Surrey resident Ruth accessed solar through Solar Together "I've wanted solar panels forever because for one environmentally it's the right thing to do... I felt I would have confidence in their due diligence... Obviously satisfied with the actual installation itself!"



BetterPoints supporting a local business "Since joining in Year 1 of Surrey's Greener Future, over £600 in sales have been generated through vouchers redeemed in the app and their additional spend, particularly over winter time, has been 'really valuable' to the business."

Energy advice sessions as part of the Warm Welcome Services:

"[We] delivered a session yesterday afternoon, there were lots of people who need some in depth advice, one lady in particular is undergoing cancer treatment and needed some relief with her bills, I called her energy supplier on her behalf and they have agreed to pause her billing for a few months to allow her some breathing space. So, a very successful outcome, thanks again for your support in helping that come together."

Surrey's 2050 net-zero target - Recommendations

Risks, challenges and recommended areas of focus for the Council's 2030 target in 2024/25 :

Despite all of this great progress, many key transformations across Surrey are not going fast enough for Surrey to say on track in future (slide 31). We also need to acknowledge that National Government policies and funding, the choices made by residents and businesses and many other factors beyond the control of Local Authorities have a strong impact on Surrey's ability to meet net-zero. We must also recognise that the financial position of the Council is extremely challenging, and it would need an **additional £TBC and TBC additional staff** to be able to fully realise the ambitions of the Climate Change Plan.

(1) Efficiency and resilience within the home: In recognition of a 26% rise in fuel poverty is on the rise, residents are more vulnerable to the impact of high energy prices and retrofit costs to Surrey of £9bn, we will continue to with **Warm Welcome services**, delivering the new **Local Authority Retrofit Scheme**, and expanding our retrofit offer through the development of the **One Stop Shop, Solar Together, community energy** and a Surrey-wide **retrofit strategy**. *(Slide 33, 34, 38)*

(2) Ways to reduce the impact of travel: Delivering a reduction in private vehicles and increasing active travel remains extremely challenging, resulting in slower delivery of new infrastructure. We will focus on the **Rights of Way Improvement Programme** to improve access, and deliver **active travel and EV infrastructure** where feasible, and to enable a transition to low carbon and healthier travel options. *(Slide 35, 36, 39)*

(3) Nature recovery and resilience: With biodiversity still in peril and residents and wildlife more exposed to the risks of climate change, developing **Local Nature Recovery Strategy** and **Biodiversity Net-Gain** will continue to be a priority, alongside new **flood protection** measures and **vulnerability assessment** across the Surrey Landscape. *(Slide 39, 40)*

(4) Supporting residents and businesses: With 1/3 of all carbon emissions dependent on the choices residents and business make, we will continue to deliver **business grants**, support **green skills**, develop Council-Community projects such as the **Home Energy Action Taskforce**, develop a **peer-to-peer inspired digital platform** and support **Parishes** on biodiversity and climate. *(Slide 37, 38)*

(5) Expanded lobbying efforts: It is necessary to highlight where key funding and policy gaps hamper local delivery. Working closely with the new National Government, we will continue to lobby and **will seek to join Council-community voices** on improving nature, supporting no-one left behind and improving funding.



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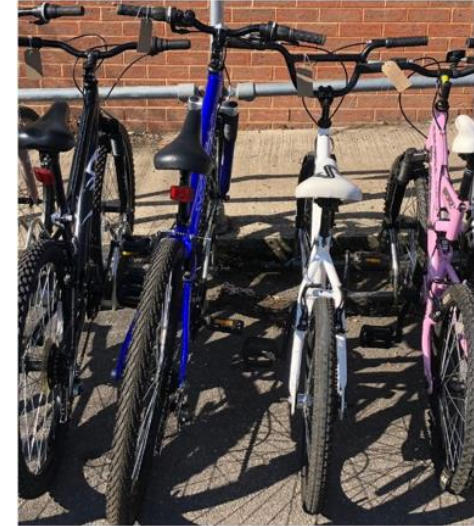
Surrey's Greener Future

Annex 1 – Case Studies

Case Studies

HMP Ford bike scheme:

Bikes are refurbished and returned to Revive shops to be sold. This improved quality of the bikes and attracted a higher sale price ranging from £40-80 depending on brand and size. Regular spares and repairs or non-scheme bikes are sold for £10-15. Refurbished bikes have their own display areas in the shop and are individually priced. The bikes are popular with customers



Energy advice sessions as part of the Warm Welcome Services:

"[We] delivered a session yesterday afternoon, there were lots of people who need some in depth advice, one lady in particular is undergoing cancer treatment and needed some relief with her bills, I called her energy supplier on her behalf and they have agreed to pause her billing for a few months to allow her some breathing space. So, a very successful outcome, thanks again for your support in helping that come together."

Case Studies

Road safety outside of schools:

Burstow School in Smallfield had suffered from antisocial driving and parking, and footways with insufficient width for the volume of parents and children accessing the school.

Following a workshop with the Parish Council, Local Members and School representatives, a scheme was conceived that was subsequently supported by the local community. The final scheme included the following:

- Substantial reallocation of road space to pedestrians
- A one-way point closure at the eastern end of Wheelers Lane
- Removal of on-street parking
- A new zebra crossing on Redhall Road
- Bollards, cycle parking, planters, and benches
- A 'rain garden' Sustainable Urban Draining System
- Resurfacing of the road



Case Studies

BetterPoints vouchers helping Surrey businesses:

Since joining in Year 1 of Surrey's Greener Future, over £600 in sales have been generated through vouchers redeemed in the app and their additional spend, particularly over winter time, has been *'really valuable'* to the business.

"It's brought new customers in, particularly sixth formers and those linked with the local active travel group, which we weren't getting huge numbers of beforehand. It has boosted sales too with people coming in to use their BetterPoints voucher but then staying to have a coffee as well."

Ben – Founder of Dylan's



Ice Cream



Solar Together:

Surrey resident Ruth accessed solar through Solar Together :

"I've wanted solar panels forever because for one environmentally it's the right thing to do... I felt I would have confidence in their due diligence... Obviously satisfied with the actual installation itself!"



Case Studies

Rural Prosperity Fund:

The Wheatsheaf pub in Grayswood (right) had been operating for over 120 years but sadly closed during covid. With more than 80 pubs a month closing in the UK, Mark Mizerotti and his family recognised the need for a pub in the village. There were no village amenities once the pub had closed so they set about refurbishing it. REPF funding has helped considerably with the refurbishment by awarding £50,000 towards the installation of a professional, energy efficient kitchen. This pub is now open and serving high quality, locally sourced food to all of its customers.



Green Flag Schools:

St Peter's CofE Primary in Farnham were recently awarded Green Flag status.



Case Studies – D&Bs

Waverly Council - LCWIPS:

Local Cycle and Walking Infrastructure Plans (LCWIPs) are key strategic documents that identifying cycling and walking improvements required at the local level. Surrey County Council has a programme of developing LCWIPs for each of the county's districts and boroughs. In Waverley, the county and borough councils partnered to gather extensive community input for the LCWIP development. 2023 saw completion of the basic plans with Waverley Borough Council adopting them for planning policy in May 2024. Meanwhile, Surrey County Council is continuing to prepare detailed design of priority walking and cycle infrastructure across Waverley's 4 main settlements.



Case Studies – D&Bs

Runnymede Council - Fleet Decarbonisation:

At Runnymede Borough Council's Environment and Sustainability Committee on the 7th March 2024, Runnymede Councillors unanimously backed a transition from diesel to hydrotreated vegetable oil (HVO) to fuel the Council's fleet of almost 80 vehicles. Use of HVO is anticipated to cut in-scope emissions from the Council's fleet of refuse trucks, minibuses, vans, street sweepers, and more by up to 90% when compared with the diesel fuel currently used. Runnymede is the first Council in Surrey to make the switch to HVO, with the move demonstrating the Council's commitment to climate change action and protection of our environment.



Case Studies – D&Bs

Reigate and Banstead Council – Household Support Fund 4:

RBBC and Mole Valley Life delivered this Household Support Fund 4 funded work across 131 homes to provide energy efficiency measures for people experiencing hardship. The measures reduce energy consumption and carbon emissions while providing residents with improved comfort. Mr W, a Chipstead Resident, said: *“I was very grateful for the offer of assistance from Reigate & Banstead Borough Council to help cope with my energy costs. I had a range of home energy efficient things installed, including radiator reflective panels, LED light bulbs, draft excluders and an Air Fryer. The equipment was installed efficiently with no fuss. I am looking forward to seeing a reduction in my home energy bills.”*



Photos: energy efficient lightbulb, letterbox draught excluder, door draught excluder, floor draught excluder, hot water tank insulation jacket

Case Studies – D&Bs

Tandridge District Council:

- Six new homes at Auckland Road and Windmill Close in Caterham on the Hill have been completed for residents on our housing register and are a step towards reducing the Council’s carbon footprint and promoting environmentally friendly living. The homes feature:
 - 100% low energy lighting: Ensuring efficient and sustainable lighting.
 - Low-emissivity (Low-E) glazing: Minimising heat loss and maximising energy savings.
 - Mechanical ventilation heat recovery (MVHR): Improving air quality and energy efficiency.
 - Enhanced building fabric: Providing superior insulation and thermal performance.
 - Air source heat pumps: Offering a renewable energy solution for heating and hot water.
 - Photovoltaic panels: Using solar energy to power the homes.
- All the new council homes are being designed with the aim of being net zero carbon with an approved programme of 200 homes. We use energy consultants to work with the architects to ensure they will be net zero.





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Surrey's Greener Future

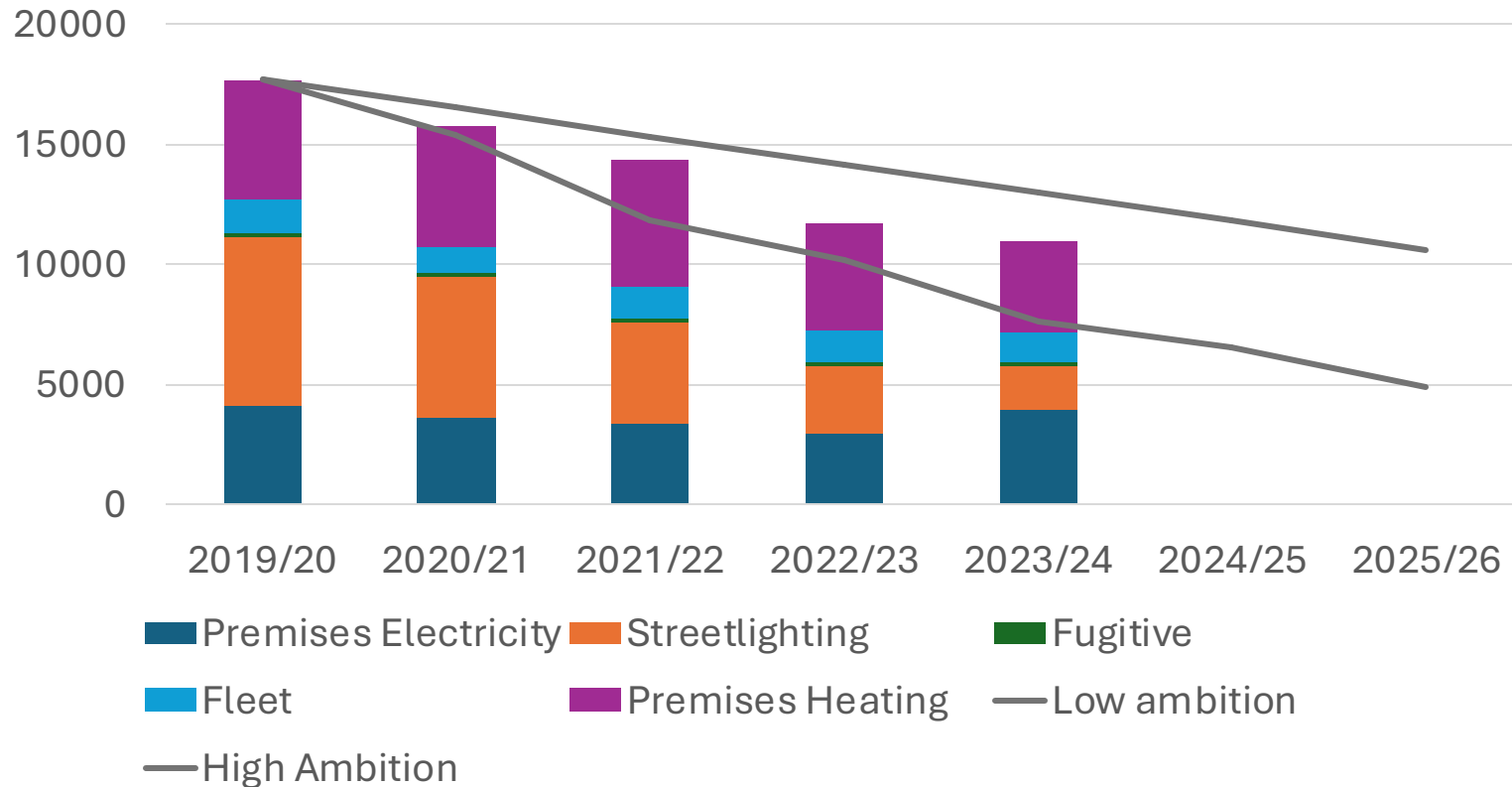
Annex 2 – 2030 target

Surrey County Council's 2030 target



On track with risk: In 2023/4 the Council emitted 10,956 tonnes of carbon. Over the last 4 years, a 38% decrease has been achieved since 2019/20. Last year an 6% reduction was achieved. These reductions are broadly in keeping with meeting the Council's 2030 net-zero targets.

Total Emissions (tCO₂e)



The area between the two grey lines on the graph represents a range of possible trajectories to meet net-zero. The most ambitious is a 69% decrease in line with what is technically feasible, and the lower ambition is 40% set out in the Climate Change Delivery Plan.

Emission reductions are compared to a baseline year. When assets are added and removed, the baseline needs to be adjusted. The baseline has not been adjusted this year.

How to read report sections

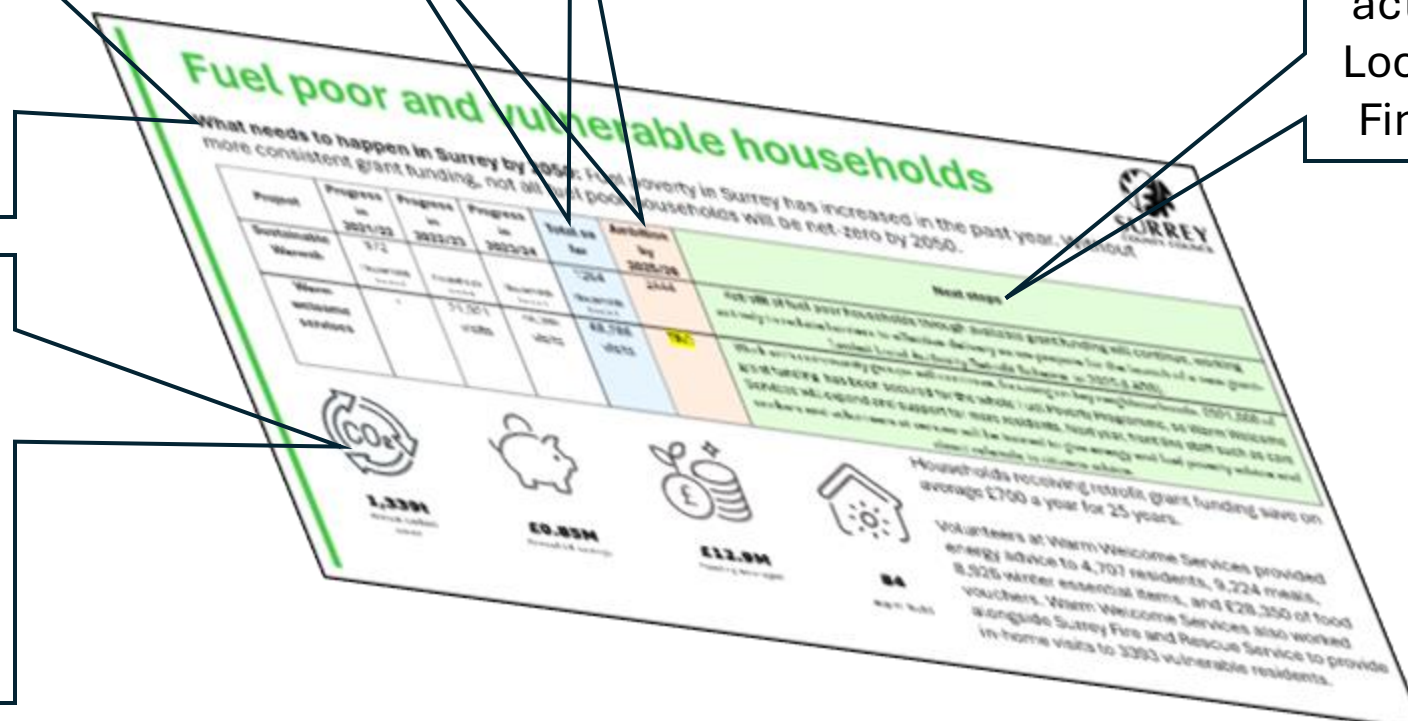
Surrey-wide indicators have been used to monitor the pace and scale of action across Surrey in relation to the Carbon target –

revealing actions that need to be taken by national government, and others.

Icons show the added value gained from the key projects since the start of the Climate Change Delivery Plan in 2021

The table shows the outcomes of key projects up to March 2024, against our expectation of progress by the end of the Delivery Plan.

This indicates what action will be taken by Local Authorities in the Financial Year 2024/5



Streetlighting

Project	Progress in 2021/22	Progress in 2022/23	Progress in 2023/24	Total so far	Ambition by 2025/26	Next steps
Streetlight LED Conversion	71% Complete	93% Complete	~100% Complete	~100% Complete	100% Complete	A county wide network has been installed on all streetlamps to allow system improvements, street monitoring and to enable future connectivity. There is scope to further improve efficiencies across the network by moving from fixed to adaptive dimming profiles based on real-time traffic information.



5,244t
Annual carbon saved



£3.5M
Annual bill savings



tbc
Funding leveraged



63%
Energy efficiency

Impact: This is a highly effective programme with a 74% reduction in streetlighting emissions. In addition to financial savings the change to LED has helped reduce the impact on biodiversity in Surrey.

Progress: The streetlighting LED replacement programme is on track and is essentially 100% completed. It has successfully decreased energy bills and emissions and will provide lasting beneficial impacts when completed. Our electricity supply is 100% renewable.

Council buildings and renewables

Project	Progress in 2021/22	Progress in 2022/23	Progress in 2023/24	Total so far	Ambition by 2025/26	Next steps
Grid Edge	-	-	3 installed	3 installed	4 installed	There are plans to install Grid Edge to Woking Library, then enter a 2 year programme of optimisation.
Building Retrofit (heat and insulation)	-	5 Buildings	1 Buildings	6 Buildings	44 Buildings	£6.8M of PSDS funding has been secured for the decarbonisation of Council buildings in the next financial year, with plans to completely retrofit an additional 10 buildings in FY 24/25.
Retrofit – Solar PV	-	5 Buildings	2 Buildings	7 Buildings	27 Buildings	Approximately 1MW of solar capacity to be considered by cabinet in November for installation in 2025/26, resulting in £56,000 net savings a year.



664t
Annual carbon saved



£0.72M
Annual bill savings



£2.6M
Funding leveraged



0.2MW
Renewables

Impact: Building retrofit alongside an 8% saving in energy efficiency. To be in keeping with targets, but the rate of retrofit will need to speed up alongside delivery of rooftop and large-scale solar.

Progress: In addition to the 3 buildings management systems installed and 6 retrofitted buildings, a new build and building refurbishment design policy is in development. The six buildings trialling the standard are set to avoid 67 tonnes of carbon and avoid around £98k of additional energy bills. Large-scale renewables have been stalled due to challenges with grid capacity. We have a new Facilities Management company, MACRO, who have made their own low-carbon commitments to our estate.

Fleet and active travel

Project	Progress in 2021/22	Progress in 2022/23	Progress in 2023/24	Total so far	Ambition by 2025/26	Next steps
Fleet replacement	0 Low carbon vehicles	38 Low carbon vehicles	1 Low carbon vehicles	39 Low carbon vehicles	196 Low carbon vehicles	Implementation of the fleet management and policies are being prioritised, without which further progress on infrastructure and fleet decarbonisation cannot be made.



tbc

Annual carbon saved



tbc

Annual bill savings



tbc

Funding leveraged



tbc

Added EV charging

Impact: The key foundations needed for rapid fleet decarbonisation are not yet in place. No plans to improve cycling facilities at key offices have been made.

Progress: The Council's fleet contains 35 ULEV owned vehicles and 39 hybrid vehicles. Although some key sites have EV charging, the delivery of EV charging on the Surrey Estate has been delayed due to challenges with the framework infrastructure provider, and lack of direct budget for provision of EV charging on the Surrey Estate. This has directly impacted on the organisations ability to transition to zero emission alternatives. There is an ongoing work to coordinate the fleet function corporately across the Surrey Fleet with policies that supports and prioritises Surrey's decarbonisation objectives both for the procurement and operational management of its fleet.

Schools and leased buildings

Project	Progress in 2021/22	Progress in 2022/23	Progress in 2023/24	Total so far	Ambition by 2025/26	Next steps
Retrofit – heat decarbonisation	-	-	-	-	13 Buildings retrofitted	We have secured £2.1M of PSDS funding for the decarbonisation of our scope 3 buildings in the next financial year, with an expected 8 buildings fully retrofitted.
Retrofit – Solar PV	-	-	1 Building retrofitted	1 Building retrofitted	4 Building retrofitted	Three schools under the PSDS3b decarbonisation programme with budget approval for solar installation, subject to a signed PPA. These sites will be implemented as part of the PSDS3b decarbonisation project. Additional schools may be included as part of Land and Property’s roof maintenance programme.



26t
Annual carbon saved



£0.01M
Annual bill savings



£2.1M
Funding leveraged



tbc
Renewables

Impact: Schools and leased buildings do not fall within the scope of the 2030 target, but scale up of the solar pilot is needed to support decarbonisation of buildings we own but don’t operate.

Progress: Solar has been installed on one school through the solar rooftop Power Purchase Agreement, which allows the Council to install and supply electricity to buildings owned by the Council but managed by others, such as schools and other leased buildings. This building has also been fitted with a heat pump. Surrey’s Low Carbon New Build Policy goes to cabinet in 2024/25, which will ensure new builds meet net-zero standards. An evidence base has been built using other work in the public domain, and case studies have been conducted.

Procurements

Project	Progress in 2021/22	Progress in 2022/23	Progress in 2023/24	Total so far	Ambition by 2025/26	Next steps
Suppliers on Climate Essentials tool	-	-	-	-	100% In scope suppliers on contract	Continue to implement policy and improve carbon measurement. Minor policy updates, improving internal systems to ensure the policy is applied to the appropriate contracts.



No estimate
Annual carbon saved



No estimate
Funding leveraged



No estimate
Low carbon contract



No estimate
Social value

Impact: The policy will apply to all new contracts above the threshold so will have a significant influence but not cover all contracts. The Climate Essentials tool allows us to more accurately measure the emissions from our procurement, but does not directly reduce procurement emissions. The tool does allow suppliers to create Carbon Reduction Plans, but it does not ensure their implementation.

Progress: The Climate Essentials supply chain carbon tool has been procured and we are in the process of uploading our suppliers. The tool calculates the Council's share of our suppliers' emissions based on how much money we spend with them. It allows the suppliers to create decarbonisation plans and tracks their progress annually. As of August 2024, there are 155 suppliers on the system, equating to 28% of annual spend.

Staff

Project	Progress in 2021/22	Progress in 2022/23	Progress in 2023/24	Total so far	Ambition by 2025/26	Next steps
Green Champions	116 staff	153 staff	143 staff	143 staff	Mostly self-autonomous committee	Green champions is being reshaped to the Green Committee – a more independent and self-autonomous committee with the support of Greener Futures.
Carbon Literacy Training	-	TBC Training received	194 Received training	TBC Received training	All tier 1 2 and 3 leaders trained	Carbon Literacy Training will focus on senior leaders, Starting with the goal of all tier 1 and 2 leaders, plus some priority tier 3 leaders becoming certified carbon literate. Once this has been achieved the programme will be extended to all tier 3 and some priority teams and tier 4 leaders.



No estimate
Annual carbon saved



£0
Funding leveraged



tbc
Avoided Business Mileage



143
Green Champions

Impact: It is challenging to estimate the impact of staff engagement. Many staff at all levels show signs of actively incorporating greener futures thinking into their service areas, but when surveyed **TBC** staff are not yet confident on how get the best climate and environmental outcome.

Progress: Whilst staff Carbon Literacy Training and the Green Champions scheme were paused to review their efficacy, resource was redirected to ensure that all service areas effectively incorporated Greener Futures objectives and outcomes into major processes such as Business Planning, financial decisions scheme designs and delivery.



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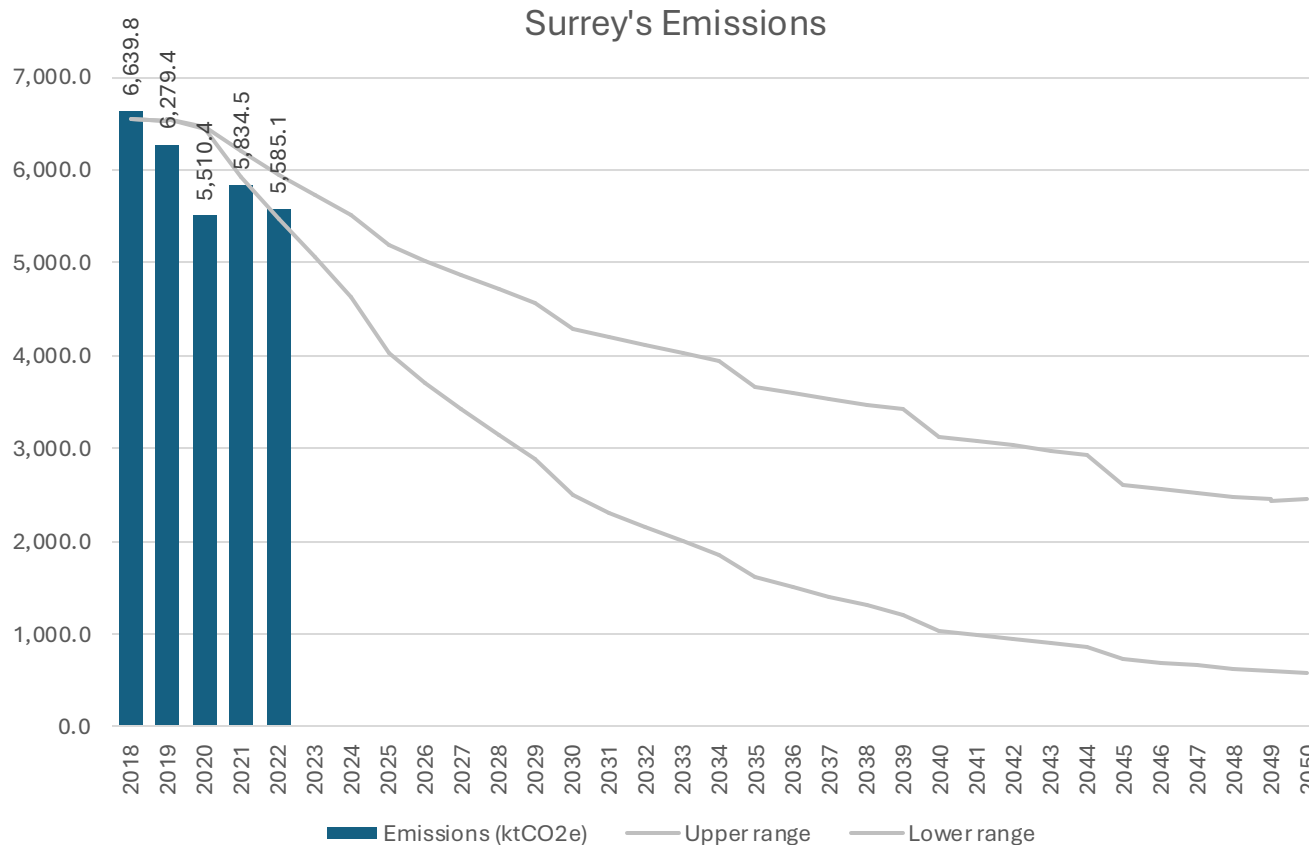
Surrey's Greener Future

Annex 3 – 2050 target

Surrey's 2050 target



On track with a risk of going off track next year. In 2022 Surrey emitted 5.6M tonnes carbon. Since 2018, only a 16% decrease has been achieved. Since last year carbon emission have reduced 4%, which is an improvement compared with the emissions increase of the year before.



The area between the two lines on the graph represents a range of possible trajectories to meet net-zero, the **most ambitious is broadly in line with national legislation and reductions in line with staying within a 1.5 degree scenario.** National datasets have been used to measure emissions. The time lag in the data is from 2022.

How to read report sections

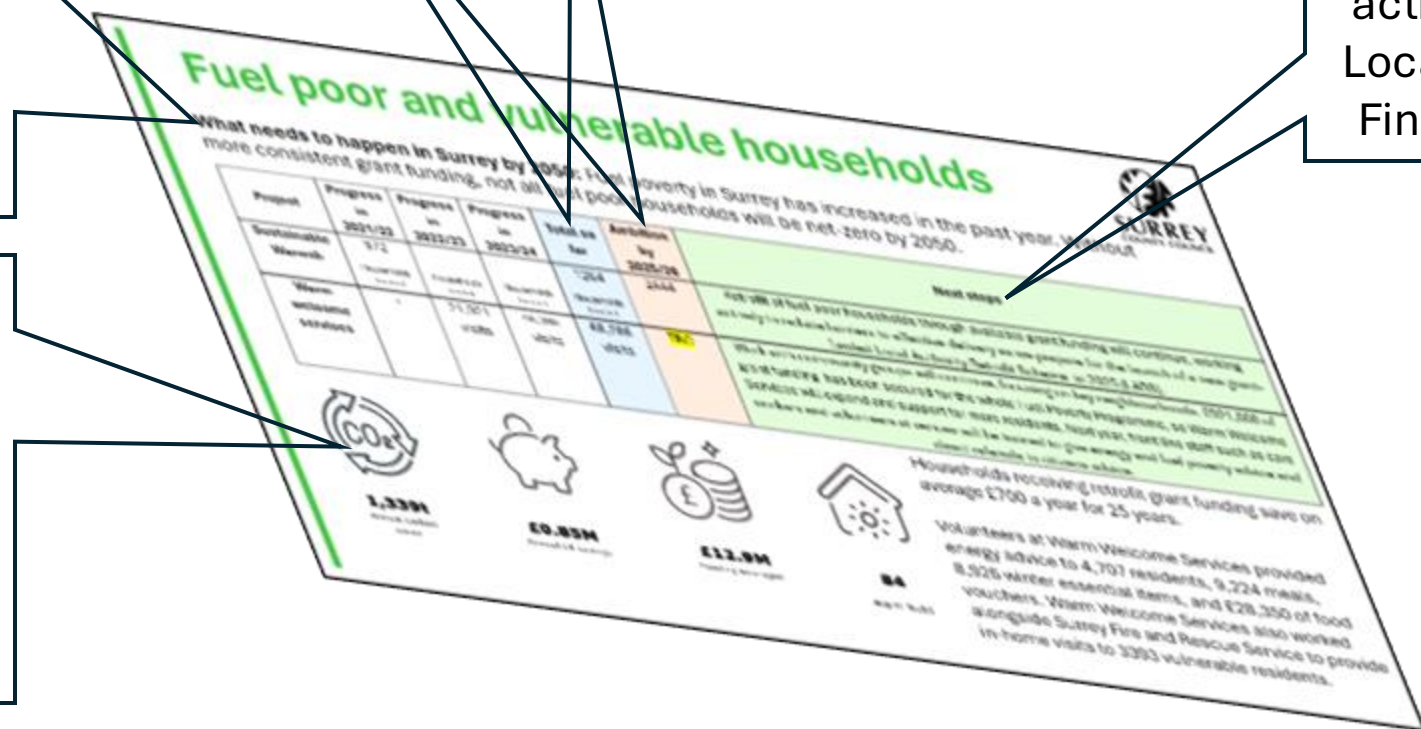
Surrey-wide indicators have been used to monitor the pace and scale of action across Surrey in relation to the Carbon target –

revealing actions that need to be taken by national government, and others.

Icons show the added value gained from the key projects since the start of the Climate Change Delivery Plan in 2021

The table shows the outcomes of key projects up to March 2024, against our expectation of progress by the end of the Delivery Plan.

This indicates what action will be taken by Local Authorities in the Financial Year 2024/5



Fuel poor and vulnerable households

What needs to happen in Surrey by 2050: Fuel poverty in Surrey has increased by 26% in the past year. Without more consistent grant funding, not all fuel poor households will be net-zero by 2050.

Project	Progress in 2021/22	Progress in 2022/23	Progress in 2023/24	Total so far	Ambition by 2025/26	Next steps
Sustainable Warmth	972 Homes treated	TBC Homes treated	TBC Homes treated	1264 Homes treated	2444 Homes treated	Retrofit of fuel poor households through available grant funding will continue, working actively to reduce barriers to effective delivery as we prepare for the launch of a new grant-funded Local Authority Retrofit Scheme in 2025 (LARS).
Warm welcome services	-	21,921 visits	46,365 visits	68,286 visits	TBC	Work with community groups will continue, focusing on key neighbourhoods. £921,000 of grant funding has been secured for the whole Fuel Poverty Programme, so Warm Welcome Services will expand and support far more residents. Next year, front line staff such as care workers and volunteers at venues will be trained to give energy and fuel poverty advice and direct referrals to citizens advice.



1,339t
Annual carbon saved



£0.85M
Annual bill savings



£13.1M
Funding leveraged



84
Warm hubs

Impact: Households receiving retrofit grant funding save on average £700 a year for 25 years.

Volunteers at Warm Welcome Services provided energy advice to 4,707 residents, 9,224 meals, 8,926 winter essential items, and £28,350 of food vouchers. They partnered with Surrey Fire and Rescue Service to provide in-home visits to 3393 vulnerable residents.

Households

What needs to happen in Surrey by 2050: Domestic energy emissions are reducing, but not at the rate needed to meet net-zero. More solar and low carbon heating deployment is necessary to speed up emissions reduction and help reduce resident's bills.

Project	Progress in 2021/22	Progress in 2022/23	Progress in 2023/24	Total so far	Ambition by 2025/26	Next steps
Solar Together	5.6 MW Solar installed	0.7 MW Solar installed	4 MW Solar installed	10.3 MW Solar installed	25 MW Solar installed	A third phase of Solar Together is underway, with the aim for a fourth phase. Should produce similar results to the second phase.
Local Energy Advice Demonstrator	-	-	580 Households reached	580 Households reached	3750 Households reached	LEAD will continue until March 2025 when grant funding ends. Home Energy Advice Taskforce will continue, and the One Stop Shop will be launched. The Resident Loan Scheme will stay on pause until market conditions improve.



2,005t
Annual carbon saved



£1.3M
Annual bill savings



£14M
Funding leveraged



2177
Households reached

Impact: 991 household took part in Solar Together in 2023/24. The Solar Together project has contributed to around 1/3 of solar deployment across Surrey in that year. Participants in the scheme will save around £1,380 a year in energy bills for up to 25 years, and 1t of carbon a year.

It is too early to estimate the impact of the Local Energy Advice Demonstrator. In 23/24 we won £0.7M grant funding.

Active Travel



What needs to happen in Surrey by 2050: Transport emissions continue to rise, now making up 47% of Surrey's emissions. Active travel infrastructure and engagement is crucial to change behaviour towards low-carbon travel.

Project	Progress in 2021/22	Progress in 2022/23	Progress in 2023/24	Total so far	Ambition by 2025/26	Next steps
Active travel infrastructure	TBC	13 km cycle path	0 km cycle path	13 km cycle path	76 km cycle path	County-wide Local Cycling and Walking Plans (LCWIPs) are in development. 6 have been completed, 8 out of 13 areas are in development, with 40 routes in feasibility. £3.2 Million secured for the Guildford to Godalming Greenway, construction starting early 2025.
Active travel engagement	-	1558 BetterPoints users	2802 BetterPoints users	2802 BetterPoints users	No target	Improve social media marketing, and increase engagement with local businesses and community groups. More work on improving incentive strategies to engage users, while continuing the alignment of rewards with council and national-supported campaigns.
Cycle training	-	10850 students trained	11622 students trained	22472 students trained	13000 students trained	The scheme is planned to continue and maintain numbers of pupils trained unless further funding is made available.
Walking training	910 students trained	3850 students trained	4737 students trained	9497 students trained	13000 students trained	80% of schools have rebooked. The scheme is expanding, the goal is to train 6500 students in 2024/25. From next term, students on free school meals will not be charged.
Schools travel plans	-	58 schools with plans	70 schools with plans	70 schools with plans	115 schools with plans	Focusing on maintaining the current number of schools with travel plans and upgrading them to higher levels of plans. More intense work with select schools to improve travel plans and increase modal shift.
Road safety outside of schools	-	2 measures installed	12 measures installed	14 measures installed	50 measures installed	A £3million investment programme for schemes outside schools to support more walking and cycling will result in 29 schemes being installed by the end of 2024/25 consisting of signalised or zebra crossings, traffic calming, 20 mph schemes, footway widening and a pilot of the first 'School Street' in Surrey.



177
Annual carbon saved



£0.25M
Funding leveraged



2802
BetterPoints users



22472
Students trained

Impact: Funding and resident opposition has made putting in active travel infrastructure challenging. 0.7M active travel journeys were logged on BetterPoints. On top of schools cycling training, 479 community members were trained in cycling. The Council has updated its policy in relation to 20mph speed limits to make it easier to implement 20mph zones to improve road safety.

Public Transport

What needs to happen in Surrey by 2050: Passenger bus journeys have steadily increased since COVID, but have still not returned to their pre-COVID levels.

Project	Progress in 2021/22	Progress in 2022/23	Progress in 2023/24	Total so far	Ambition by 2025/26	Next steps
ULEV buses	9 ULEV buses	7 ULEV buses	0 ULEV buses	16 ULEV buses	70 ULEV buses	34 hydrogen buses arriving by end of 2024 calendar year. By 2026 there will be a further 20 electric buses. 13 of the 20 electric buses are being supplied by a British manufacturer, meaning lower emissions from transport, and support of green industries in the UK.
ULEV minibuses	9 ULEV minibuses	6 ULEV minibuses	0 ULEV minibuses	15 ULEV minibuses	44 ULEV minibuses	Total of 28 zero emission minibuses by end of 2024 calendar year, then total of 44 by end of 2025/26. There are plans to expand services and cover more areas of Surrey in December 2024. The model is moving from door-to-door to a stop-to-stop service to improve operational efficiency.



tbc
Annual carbon saved



tbc
Annual bill savings



tbc
Funding leveraged



7702
LINK users

Impact: Bus decarbonisation is still on track, having overcome supply chain issues affecting delivery dates. There are also refurbishment plans to electrify diesel buses already in our fleet.

Although sample numbers have been small, we have reported 95-98% positive feedback from users.

Businesses



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What needs to happen in Surrey by 2050: Industrial emissions made up 15% of Surrey’s emissions in 2022/23, and has consistently remained at 15% since 2018. Businesses must change their behaviour to reduce this in order to meet net-zero by 2050.

Project	Progress in 2021/22	Progress in 2022/23	Progress in 2023/24	Total so far	Ambition by 2025/26	Next steps
EV Van grant	-	-	15 taxis delivered	15 taxis delivered	No target	EV van grant closing on 30 September 2024 as considered by National Highways and Surrey County Council due to low uptake.
Rural prosperity grant	-	-	15 Businesses funded	15 Businesses funded	tbc	Rural prosperity grant will deliver £1.200,000 of grant funding to local rural businesses across Waverley, Guildford and Tandridge by March 2025.
Decarbonisation Loan Scheme	-	-	-	-	tbc	Phase 1 is due to launch this year, giving out £200,000 worth of loans until March 2025. Phase 2 is expected to see the delivery of £400,000 of loans between October 2025 and March 2027. By March 2025, 70 businesses will be using the carbon course, and 70 using the carbon calculator. 45 decarbonisation plans will be developed for businesses, and 25 jobs will be created. This should save 84 tonnes of carbon and up to £67,000 in energy bills.
Green Skills	-	17 Participants on green courses	490 Participants on green courses	507 Participants on green courses	500	We are looking to run 5 green skills bootcamps covering retrofit skills and carbon management courses for sustainability officers. Aiming to provide 200-250 places on these courses in FY 24/25.



tbc
Annual carbon saved



tbc
Annual bill savings



tbc
Funding leveraged



tbc
Renewables

Impact: LoCase closed in August 2023. At its close it had helped 229 SMEs, awarding £2.5M of grant funding so grant delivery reduces as new schemes were being developed. Activity on green skills has supported an uptick in the number of residents with access to subsidised green skills courses, using £2.5M of grant funding; worked with both businesses and training providers.

Communities

What needs to happen in Surrey by 2050: Residents can influence around a third of all carbon emissions by living sustainable lifestyles through their choices of energy, food, travel and shopping.

Project	Progress in 2021/22	Progress in 2022/23	Progress in 2023/24	Total so far	Ambition by 2025/26	Next steps
Strategic Engagement	-	10789 Link clicks	9850 Link clicks	20639 Link clicks	tbc	Together 4 Surrey is expected to launch in 24/25. It is a community partnership project which offers tailored advice and steps for residents in Surrey to engage in sustainable living.
URBOAs	-	-	1 Measures installed	1 Measures installed	3 Measures installed	3 measures will have been installed by end of 2024/25. Due to lack of staff resource, we will offer minimal direct support to this and are hoping communities will pick up the work.
Volunteer Retrofit	-	-	3 Volunteers trained	3 Volunteers trained	tbc	Continue training retrofit coordinators within the Home Energy Advice Taskforce.
Home Energy Advice Taskforce	-	-	550 Home visits	550 Home visits	2000 Home visits	Goal of training 100 Energy Champions by 2025/26. 68 Energy Champions have already been trained.



No estimate
Annual carbon saved



tbc
Funding leveraged



380k
Social media hits



98
Green Flag Schools

Impact: 25 events were held in which SCC either hosted, spoke at, or had a stall at. There was great residential engagement within the Urban Biodiversity Opportunity Areas (URBOAs), but businesses were less engaged than expected. As a part of Surrey's Green Social Prescribing scheme, a range of projects were carried out to connect people with mental health conditions to nature using virtual an augmented reality.

Planning, Placemaking, Infrastructure

What needs to happen in Surrey by 2050: EV take-up is still not at the level needed to meet net-zero. The installation of EV chargers in public and private land must continue. Ensuring that Surrey’s infrastructure, landscape and assets are low carbon and resilient to the impacts of climate change is becoming more urgent as global average temperatures increase.

Project	Progress in 2021/22	Progress in 2022/23	Progress in 2023/24	Total so far	Ambition by 2025/26	Next steps
EV Public on street charge points	26 Points installed	66 Points installed	74 Points installed	192 Points installed	800 Points installed	300 charge points will be delivered by Connected Kerb. 80 of these are in the immediate delivery pipeline and 220 to be installed throughout the next financial year.
Low carbon infrastructure policy	-	-	-	-	60% emissions reduction at project level.	Tools including emissions estimation, assessing future climate risks, low carbon materials decision making and long-term road map to implement the targets set out in the policy.
Waste	-	-	13.5-14% contamination	13.5-14% contamination	10% contamination	With the introduction of the new waste contract in 2024/25, a target of 10% contamination has been set to increase the volume of waste recycled.



tbc
Annual carbon saved



No estimate
Annual bill savings



tbc
Added EV charging



0
Compatible plans

Impact: Surrey’s Adaptation Strategy was published in January 2024, with policy in the works to integrate adaptation into the council’s work. The Low Carbon Infrastructure Policy began development in 23/24, with the first draft published in May 2024. Initial designs for a reuse and repair hub have been made, with planning applications started. One scheme to reduce waste has seen bikes repaired by people in prison and given to people in need through Action Surrey.

Tree Planting and Land Management

What needs to happen in Surrey by 2050: Biodiversity is decreasing across the whole country. Climate change exacerbates biodiversity loss, and the increase of biodiversity loss in turn accelerates climate change. The maintenance of Surrey’s biodiversity and forests is paramount in reaching our net-zero targets.

Project	Progress in 2021/22	Progress in 2022/23	Progress in 2023/24	Total so far	Ambition by 2025/26	Next steps
Tree planting (including partners)	135,938 trees planted	96,923 trees planted	78,049 trees planted	558,267 trees planted	tbc	Continued tree planting with a strong focus on creating and expanding new and existing community orchards and planting fruit trees within community settings
Woodland management	tbc	tbc	tbc	tbc	tbc	Active management continues in autumn and winter months. Renew the woodland management plans of all 19 sites currently under review to maximise the possibility of getting DEFRA funding.
Biodiversity Net Gain	tbc	tbc	tbc	tbc	tbc	tbc



No estimate

Annual carbon saved



No estimate

Annual bill savings



tbc

Woodland managed



0

Biodiversity Net Gain

Impact: The target to plant 1.2M trees has fallen slightly short of the target, but is still going strong. Land Management Framework to improve benefits from Surrey County Council’s farmland and countryside has been approved. Lots of engagement work has occurred surrounding the Local Nature Recovery Strategy. Surveying sites for Biodiversity Net Gain and potential habitat banks are being identified.



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Surrey's Greener Future

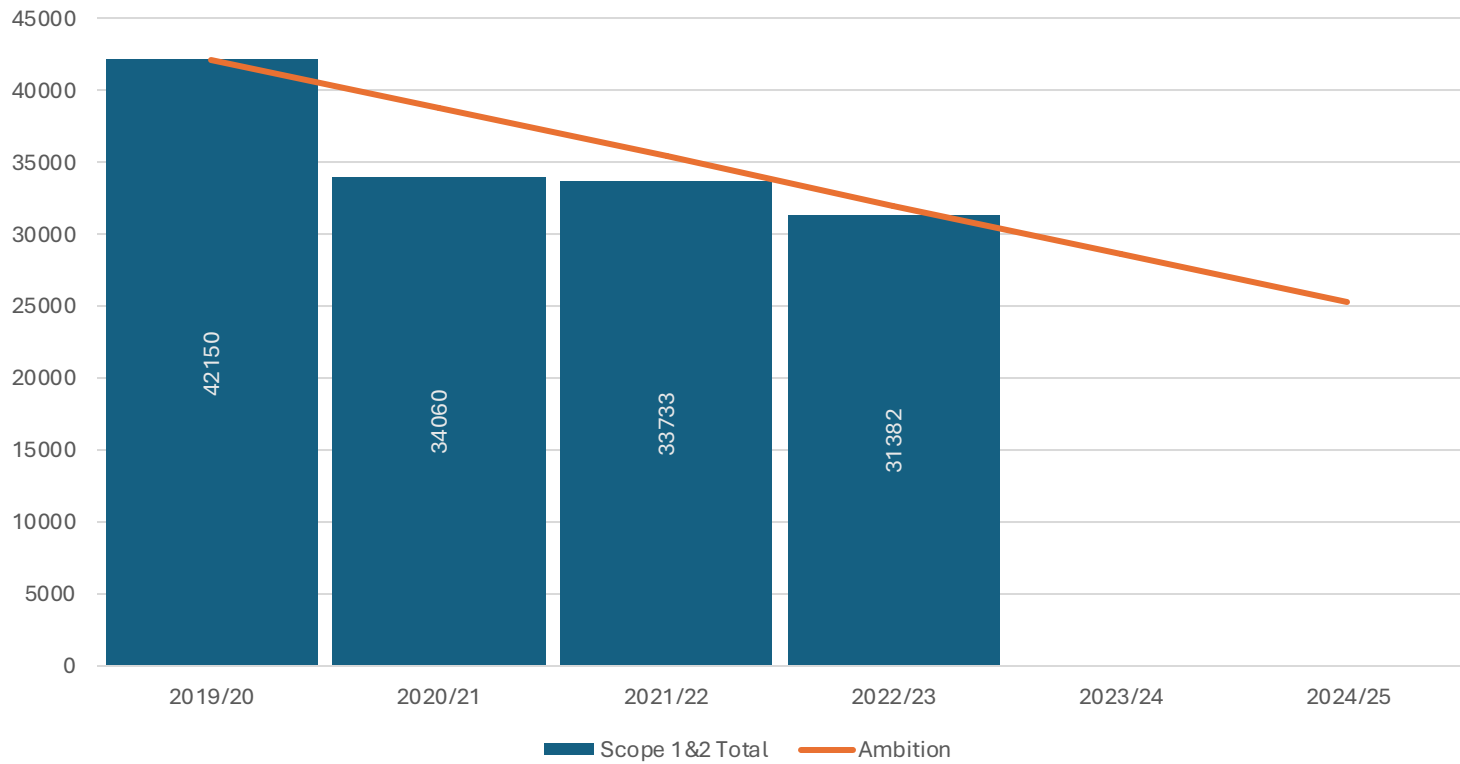
Annex 4 – Local Authority Emissions

Local Authority Emissions



On track with risk: In 2022/23 Local Authorities emitted 31,382 tonnes of carbon. Over the last 4 years, a 26% decrease has been achieved since 2019/20. Last year a 7% reduction was achieved. 6 local authorities increased emissions, and 6 decreased emissions. These reductions are broadly in keeping with meeting the Council’s 2030 net-zero targets, but there is a high risk of going off track next year.

Total Local Authority Emissions (tCO2e)



The orange line represents a 40% reduction in emissions. It is necessary to keep emissions below this line in order to meet the Local Authorities net-zero target.

Emission reductions are compared to a baseline year. When assets are added and removed, the baseline needs to be adjusted. The baseline has not been adjusted this year.

Local Authority Emissions

What needs to happen in Surrey by 2050: Public sector emissions made up 4% of Surrey’s emissions in 2022, representing a decrease of 6% from the year before, and a 19% decrease from the baseline year. This includes emissions from the whole public sector, not just Local Authorities.

Project	Progress in 2021/22	Progress in 2022/23	Progress in 2023/24	Total so far	Ambition by 2025/26
Buildings retrofitted	11	14	16	41	130
Sites with EV charging	5	29	25	tbc	Tbc
EV fleet	30	64	77	171	Tbc
Solar PV capacity	TBC	0.356MW	0.7MW	tbc	Tbc
Green champions	8	171	165	165	Tbc



10510t
Annual carbon saved



£8.2M
Funding leveraged



tbc
Renewables



165
Green Champions

Impact: We have information on 10 of the 12 local authorities. Of these 10, 6 have programmes in place to retrofit their estate. 4 local authorities have received PSDS funding, amounting to a total of £5.1M in 2023/24. 7 authorities have programmes in place to decarbonise their fleet, with a total of 171 low carbon vehicles. 6 local authorities have staff travel plans in place. 5 local authorities have sustainable procurement policies in place.

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