

Brighton & Hove City Council

Appendix 1: Forecast greenhouse gas savings of 2022-24 CNF projects

As explained in paragraphs 3.12 and 3.13, savings per pound investment should not be compared across projects, as the *full* carbon-reduction potential of many projects exceeds forecasted savings reported in the table below.

Project title	Project summary	Funding allocation	Estimated tonnes CO2e savings	Relative confidence level in CO2e estimate
Traffic Signal Carbon Reduction Programme	Replace the old incandescent bulbs in signal heads with LEDs to increase their brightness and reliability while significantly reducing (87% less) the electricity used for the city's traffic signals as well as the number of signal faults and associated vehicle journeys required to attend them. These changes will present no additional safety considerations.	£ 600,000	27.6	Medium
Seafront Heritage Lighting Restoration 22/23 - 25/26	Restore the historic grade II listed cast iron street lighting columns along Brighton's Seafront to preserve the cities heritage and expedite the replacement of existing lanterns with new LED variants.	£ 1,400,000	444.4	Medium
Low Carbon Heat Implementation at Children Centres / Nurseries	Implement low-carbon heating technologies at two council children centres and nurseries.	£ 250,313	190.2	Higher
Moulsecoomb Hub and Housing project	Additional sustainability measures to proposed project to deliver Community Hub containing a Library, Youth Club, GP Surgery, Café, and Pharmacy, and 212 new homes (Affordable Housing units, owned and managed by BHCC). The scheme incorporates good quality public realm with opportunities for natural play, biodiversity and ecological enhancement, food growing and social interaction. To fund installation of boreholes for Ground Source Heat Pumps.	£ 725,122	2136	Higher
Sustainable Building	Work with café tenants to make sustainable changes to the café building when it is expanded next year (2023), such as installing heat pumps and adding a green roof.	£ 75,000	NA - awaiting detailed plans	NA

Improvements for St Ann's Well Café				
Solar Panels at Stanmer Workshop	Install solar panels at a new workshop being built at Stanmer to charge electric plant and machinery housed there overnight.	£ 40,000	14.61	Higher
Electrical Infrastructure at City Parks Fleet	Improve the electrical supplies to City Parks' depots across the city to ensure that the expanding fleet of electrical vehicles and equipment can be efficiently and effectively charged.	£ 100,000	NA - enabling project	NA
Electrical Vehicle for Waterhall	Purchase a set of conservation management tools and an electric allterrain vehicle to reduce the carbon footprint of the Wilding Waterhall project by removing the need for daily return travel to Stanmer Park.	£ 31,500	42.16	Higher
City Park Diesel Reduction Programme	Install event electrical utilities to reduce the use of diesel generators in our city and provide clean power for event and community use.	£ 130,000	2297.7	Medium
Rechargeable Medium Sized Machinery	The council has a programme to move from fossil fuel to electric vehicles. City Parks are also changing small plant such as hedge cutters and smaller strimmers to rechargeable electrically operated machines. The team now has a rechargeable electrically powered ride on mower which is working well. The technology for this type of maintenance has advanced to a point where we believe this type of machinery now offers a practical solution to mowing in the city. The intention is to buy more rechargeable, middle sized, grass cutting equipment to accelerate the change and test the practicality of the equipment.	£ 12,500	40.7	Lower
Public Toilet Refurbishment Programme	Fund energy and water efficiency measures at four public toilets being refurbished as part of the larger £2.7 million public toilets refurbishment programme.	£ 126,500	163.7	Medium
Allotments Water Infrastructure Upgrades	The project will replace water infrastructure at 6 allotment sites in the city where significant leakage is suspected. It is anticipated the work will save in the region of 8778.5 cubic metres of water per year.	£ 210,500	41.57	Lower
Water Efficiency Fund - Phase 2	Build upon Phase 1 of the Water Efficiency Fund, further investment is requested to broaden the monitoring scope of BHCC's water portfolio. This should enable leaks and high usage to be identified and repaired resulting in significant water, carbon and financial savings.	£ 50,000	16.34	Lower

E-Cargo Accelerator Project	Purchase eCargo bikes to meet increased demand from the council's eCargo Accelerator project.	£ 90,000	17.45	Lower
Electrical Vehicle Fast Charger Installations and Improved Access Initiatives	Extend charging provision of electric vehicle fast chargers to areas of the city not eligible for Government "Office for Zero Emission Vehicles (OZEV)" funding.	£ 86,000	2252.82	Medium
Western Road Improvement Project	Provide additional funding to the Western Road Improvement Project. The CNF allocation would fund street tree planting, including measures to help the trees establish in their new environment, and remediate cycling pinch points.	£ 532,500	232.7	Lower
Determining Emission Categories of the Citywide Vehicle Fleet	Installation of camera technology around or on entry to Air Quality Management Areas (AQMA) to provide baseline and ongoing data collection about vehicle flows and types to inform the potential impacts of various interventions, such as an extended ULEZ.	£ 200,000	NA - enabling project	NA
Kingsway to the Sea	Improve the biodiversity net gain of the Kingsway to the Sea project through exemplar soft landscaping and reduce the building's operational carbon through various sustainability measures.	£ 700,000	NA - awaiting detailed plans	NA
Palace Place & Old Steine	Install renewable energy technologies to reduce the converted building's operational carbon.	£ 89,000	NA - awaiting detailed plans	NA
Improving the Communal Bin System	In phase 1, pilot improvements in the communal bin system designed to improve recycling rates at 135 sites. In Phase 2, expand the pilot area applying learnings from phase 1.	£ 820,000	668.9	Lower
Improving WEEE Recycling	Install new, more secure Waste Electricals and Electronic Equipment (WEEE) bins across the city to increase the volume of electricals recycled and increase the overall number of WEEE recycling points.	£ 84,555	504.7	Medium
Solar Smart Litter Bins	Refurbish and redeploy large capacity, solar smart bins to the outskirts of Rottingdean, Ovingdean and Saltdean that have inbuilt technology which notifies the office when the bin is full, reducing travel thus reducing carbon emissions.	£ 115,000	N/A - withdrawn	NA

BUTT You Can Save Water & Compost	Provide subsidised home composters to residents across the city and introduce a subsidised water butt scheme for residents.	£ 48,000	NA - cc adaptation	NA
Concrete Road - Lifecycle Extension Programme	Trial the use of new techniques to rejuvenate and rehabilitate fourteen of the City's failing concrete roads. The techniques are low carbon and expected to extend the lifecycle of these assets by up to 10 years.	£ 1,000,000	694.2	Higher
Flood Drainage Systems for Tree Pits alongside Parks	Replace existing tree stumps with tree pit drainage systems to reduce flood water risk in the city whilst increasing tree planting which also supports flood mitigation.	£ 150,000	50.7	Medium
Purchase of Decompaction Machine for all Grassed Areas	Purchase specialist shockwave machinery for the decompaction of all short mowed, high use grassed area such as sports pitches, events areas and leisure spaces to improve their water retention and carbon sequestration.	£ 27,000	NA - climate change adaptation	NA
Norton Road Rain Gardens	Install rain gardens at two locations on Norton Road: Site 1 at the junction with Eaton Road converting the existing traffic island into a rain garden; Site 2 in front of Hove Town Hall, converting the vehicle turning area into a rain garden.	£ 75,000	NA - climate change adaptation	NA
Rewilding Residents of Brighton & Hove	Install guided trails around the new Waterhall Local Nature Reserve, improve low-carbon travel options to site, and raise awareness of the climate change and biodiversity crises. The project will focus on connecting residents who would usually lack the confidence to explore wild spaces like Waterhall.	£ 15,500	NA - biodiversity	NA
Downland Dew Pond Creation	Pilot project to create a new Dew Pond on Waterhall ex-golf course increasing the site's biodiversity and improving the resilience of the freshwater network across the Downland Estate and wider South Downs National Park. The project will provide educational opportunities for schools, sharing vital information around climate change and biodiversity loss.	£ 25,000	NA - biodiversity	NA
			9836.5	