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Resource and Recycling Strategy 2020-30 Progress

Theme	Action	Start Date	End Date	Measurable Outcome	Progress
Implementation Policy	Support the Climate Emergency Plan Implementation	2021	2030	Support the implementation of recycling and waste related actions	Climate Emergency Plan will be recognised and implemented throughout the strategy.
	Support the implementation of the council's plastic reduction strategy	2021	2030	Reduction in single-use items	Plastic Reduction Strategy will be recognised and implemented throughout the strategy.
	Support the implementation of the council's Circular Economy Route Map for Glasgow	2021	2030	Support the implementation of waste and recycling related actions within the Roadmap	Collaboration with NRS Sustainability Team on implementation of the Glasgow City Food Plan and provision of support to a Glasgow University Project on Collaboration on consultation response to the Scottish Government consultations; Circular Economy Bill, Route Map to 2025 and beyond. Waste Electrical and Electronic Equipment (WEEE) re-use event held across all four Household Waste Recycling Centres (HWRC) during August which supports the repair and maintain action within the Route Map.
	Develop and implement policies on contamination within recycling bins to cover kerbside, communal and commercial properties	2021	2022	Written policies and adoption of procedures	Contamination policy submitted and discussed at November ESCR Committee. Recommended to go to City Administration Committee for approval. Implementation anticipated at the same time as the introduction of the twin stream recycling service for kerbside properties.
	Develop and implement a bin policy to cover the provision of bin types to all domestic properties including the uplift of one general waste bin per household/collection cycle	2021	2022	Written policies and adoption of procedures	Bin policy submitted and discussed at November ESCR Committee. Recommended to go to City Administration Committee for approval. Implementation anticipated at the same time as the introduction of the twin stream recycling service for kerbside properties.
	Review and create procedures for waste acceptance policy for material delivered to transfer stations by commercial organisations, housing associations, and charities	2020	2022	Improve segregation of waste at source and at transfer stations to increase recycling tonnages and reduce tonnage to landfill/residual waste treatment	New weighbridge procedure (WI-3217) drafted and implemented. New online booking system implemented during 2021. Housing associations were the first organisations to utilise this system. Online booking system introduced for charities and traders from September 2022.
	Review of policies at HWRC to include reducing misuse by traders and non GCC residents, opening times, and application of stricter policies to ensure waste is kept separate at the HWRC	2021	2022	Development and adoption of policies. Reduction in tonnage sent to landfill and residual waste treatment	CCTV & Automated number plate recognition (ANPR) installed at four Council depots which will assist in detection and enforcement action against bribery, corruption and abuse. Revised operating hours of HWRC introduced to align with neighbouring local authorities.
	Liaison with and implementation of SEPA Sector Plans and One Planet Prosperity where relevant to the Councils activities	2021	2030	Ensure compliance and beyond with all relevant waste related legislation	SEPA Tyre Sector Plan taken into cognisance when drafting tender for the collection and processing of fly-tipped tyres.

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Imp	Undertake a review of re-use of household goods contract via the Household Waste Recycling Centres (HWRC) to increase diversion of material via this avenue and move the management of waste up the hierarchy. Link to Circular Economy Roadmap.	2021	2022	Increase tonnage and quality of material recovered for re-use from the HWRC	WEEE Re-use event held during the month of August. Change of sub-contractor in 2022 for small mixed WEEE which hopes to incorporate some re-use of suitable WEEE. The council are planning the re-development of their Easter Queenslie property. Part of this work involves the re-design of the existing HWRC with a view to increasing diversion of material via this avenue and move the management of waste up the hierarchy.
	Develop a strategy for the implementation of textile collections in Glasgow to align with EU Waste Directive. Link with Circular Economy Roadmap	2023	2025	Introduction of textile collection service by 2025	
	Continue to harbour strong working relationships with Zero Waste Scotland, Scottish Environment Protection Agency, Scottish Government, and other local authorities on the development and delivery of impending policy and legislative changes.	2020	2030	Attendance at Waste Managers Network, regular meetings with ZWS, participation in working groups, submission of consultation responses.	In collaboration with Zero Waste Scotland, completion of Options Appraisal (OA) for kerbside collection services. OA for for flatted properties has started. Officers attend the Waste Managers Network and are in regular touch with counterparts from other authorities.
	Support the implementation of the Private Lane Strategy addressing fly-tipping issues and adoption of bulk waste collection procedures	2021	2030	Input into production of report on options for the management of waste and recycling at these locations	
	Support any corporate review of the impact of the Covid-19 pandemic restrictions on service delivery				
	In collaboration with Zero Waste Scotland, conduct an options appraisal of the Council's recycling and waste collection services to expand the range of materials collected including additional plastic waste streams	2021	2023	Completion of options appraisal	Liaison with Zero Waste Scotland and their consultants, Eunomia, throughout 2022. OA informed the Council's application to the Scottish Government Recycling Improvement Fund to align kerbside collection services to the Code of Practice supporting the Charter for Household Recycling. Completion of options appraisal for kerbside properties and start of similar process for flatted properties.
	Ensure equity in recycling and waste collection services between flatted properties and main door properties.	2021	2024	Provision of infrastructure to collect the same material streams from all housing types	July 2021 - Brown bin garden waste collection service offered to residents within flatted properties that have a garden and wish to participate in the service, however, there has been a low uptake in this service.

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ure and Technology	Review of waste collection services to align with Charter for Household Recycling and Extended Producer Responsibility (EPR) for Packaging Waste	2021	2024	Alignment of council collection services with Code of Practice and requirements of EPR. Collection of additional material streams within recycling services.	Completion of Options Appraisal for kerbside properties. Introduction of twin stream recycling service, as required by the Code of Practice, due to be introduced for kerbside properties in 2023. Officers attended DEFRA EPR workshop for Local Authorities in November. Workshop covered how pEPR interacts with Local Authorities including financial and reporting to scheme administrators and performance. Guidance being developed by DEFRA for Local Authorities
	Monitor impact of the introduction of a deposit return scheme (DRS) for single-use drinks containers on council collection services	2022	2025	Outputs of target DRS materials from MRF. Glass tonnage collected. Waste Compositional Analysis Results	Officer attendance at Circularity Scotland (scheme administrator) DRS conference in November. Confirmation that scheme will go live in August 2023, however, announcement from the Scottish Government in December 2022 of a softer launch.
	Review the layout and operation of transfer stations to ensure the efficient management and effective separation of different waste streams	2020	2023	Adoption of new on-site procedures, with a reduction in tonnage sent to landfill	In close collaboration with health and safety colleagues, all operational procedures and risk assessments relating to transfer operations are currently being reviewed, updated and briefed to all relevant staff. These critical documents will now be stored electronically to facilitate document control.
	Review of existing depots used for waste collection, transport, and storage to improve service efficiencies	2021	2023	Production of a report on existing and future waste disposal operational facilities.	The council continues to invest in existing facilities used for waste related activities. Key projects include: -Planned re-development of Easter Queenslie -Planned re-furbishment of Shieldhall -The construction of new recycling bays targetting additional recyclable material for collection at Easter Queenslie.
	Review of Blochairn Material Recycling Facility infrastructure and operational processes in light of policy changes, which will affect the composition of incoming waste streams due to introduction of Deposit Return Scheme and Extended Producer Responsibility for packaging waste.	2021	2022	Production of report and implementation of any required changes	Partnership project with Danu Robotics (links to Edinburgh University) to install Artificial Intelligence sorting technology within Blochairn MRF to assist with the separation of recyclables on the picking line. This is a proof of concept research project which will help inform the council's future MRF operating model. A working group has been established to progress the project; the prototype model has now been built and will be reviewed under laboratory conditions in January 2023.
	Review the operational model of the MRF to look at working hours, staffing levels, and waste acceptance procedures	2021	2022	Completion of review. Implementation of findings.	The future MRF operating model is tied to the property review project and actions detailed above.
	Complete the roll-out of the Bin Replacement Programme for flatted properties	2020	2021	Replacement of all the metal dustbins, provision of wheeled bins, provision of additional recycling capacity	Complete

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Develop Infrastructure	Review the layout/infrastructure of the household waste recycling centres to improve efficiency and increase recycling	2020	2022	Increase in tonnage captured for re-use and recycling. Reduction in residual waste disposal tonnage.	Re-development of the Queenlise depot will realise changes to the layout of the HWRC at this location which will seek to improve the segregation of material streams. A facility to improve the re-use of household goods will also be sought as part of the re-development.
	Introduce automatic number plate recognition and install additional CCTV at HWRC and transfer stations	2021	2022	Installation of new infrastructure	CCTV & Automated number plate recognition (ANPR) installed at four Council depots which will assist in detection and enforcement action against bribery, corruption and abuse. Weekly reports are now compiled by the Performance Improvement Management Unit on visitor numbers and most frequent vehicles using the sites.
	Explore alternative treatment options of non-target recyclable material output from the MRF. e.g. chemical recycling of plastics	2022	2025	Review of options to determine feasibility	There have been some initial high level discussions with the Council's residual waste treatment partner, Viridor, on this subject.
	Upgrade weighbridge software to align with the council's integrated management system (Mayrise/Alloy)	2022	2022	Newly installed software. Alignment with Mayrise/Alloy integrated management system.	Project team has been established to procure and install new software. ISYS Weighsoft programme is now operational at all sites. Additional software module, ISYS Skip Man, currently being integrated to Weighsoft to allow integration between skips and weighbridge.
	Explore options for implementation of digital waste tracking system upon completion of DEFRA research project.	2022	2025	Application of waste tracking technology	Response submitted to national consultation on this issue. Digital Waste Tracking due to be introduced 2024, although still to be confirmed. Liaison with weighbridge software provided to determine viability of this system contributing to fulfilling Council requirements on this. User research sessions by DEFRA scheduled for Jan 2023. Officers will attend.
	Support the implementation of the council's Fleet Strategy.	2021	2030	Number of alternative fuel vehicles	NRS Transport are progressing Hydrogen fuel technology at Polmadie. Project support is being provided with respect to provision of site information to help inform the design of the facility.
	Review the location of the public collection point network of recycling bins and review the appearance of the bins.	2021	2023	Assessment of bin types/locations. Review of options on maintenance, housing and cleaning of bins.	Public collection points will be impacted by the provision of a twin stream recycling service and introduction of the DRS for single-use drinks containers. The bin hub trial for flatted properties will also impact this service provision.
	In conjunction with the City Centre Living Strategy, undertake a review of recycling and waste infrastructure to manage expected increases in the city centre population	2021	2030	Development of guidelines for the storage and collection of recycling and waste from the city centre	Options Appraisal for flatted properties will assess service provision for flatted properties.

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note Behavioural Change	Implementation of regular communications to residents on the council's recycling services to increase participation in services and quality of materials captured. This may be in liaison with the Council's contractual partners.	2021	2030	Completion of annual communication campaign to residents. Increase in participation in recycling services. Reduction in contamination.	Stop Talking Rubbish' communication campaign was undertaken from January - March 2022. Adverts appeared on STV and Radio Clyde. Council's digital media channels promoted the campaign in addition to other media digital platforms. In addition, the graphics used in the campaign have been incorporated into a mural at SWG3 adjacent to the Clydeside Expressway. Support of Food Waste Action Week (March 1-7), support of National Recycle Week (20-26 September), and Christmas social media campaign using the Council's social media accounts.
	Increase the use of internal communication mechanisms to promote recycling to council employees	2021	2030	Regular articles within council publications e.g. Loop, Insider, e-mail communication, manager briefings. Refresher training for all waste collection and disposal operational staff	Communication plan noted above will include internal communications. Expansion of the installation of new screens within operational depots to relay information on recycling initiatives and policy development to frontline staff throughout 2022.
	Support the promotion of Deposit Return Scheme upon its introduction via council communication outlets, both internal and external	2022	2025	Support communication campaign. Monitor glass and plastic bottles, drinks cans within residual waste via waste compositional analysis.	National campaign promoting the introduction of DRS due to start approx June/July 2023. The Council's communication channels will be used to support this campaign and has been brought to the attention of communication and media teams.
	Support national communication campaigns such as Recycle Week, Scottish Government Climate Change	2021	2030	Utilising national communication collateral on a local basis.	Recycle Week 2022 delayed due to the death of the Queen. Some momentum lost.
	Increase communication with the council's commercial waste customer base to improve compliance with legislation, the quality of recycling material collected, and reduce contamination.	2021	2030	Reduction in contamination within commercial recycling collections processed at the Council's MRF	There has been regular engagement between the operational team at Blochairn MRF and the council's commercial team regarding the importance of providing high quality mixed recyclables. Operational staff training will raise the profile of contamination from both domestic and commercial premises in 2023.
	Promote the use of the council's HWRC to increase collection of other waste streams for recycling, not captured within the domestic bins, e.g. Waste Electrical and Electronic Equipment (WEEE) and expand on opportunities for the re-use of household goods from the HWRC	2021	2030	Increase in quality and tonnage recycled via the HWRC	Small mixed WEEE re-use event held throughout August 2022 across all four HWRC. GCC householders encouraged to bring re-usable WEEE items to the Council's HWRC. Valpak, the Council's WEEE contractor had staff present on site. CCL, sub-contractor collected items for PAT testing and re-distribution. This event followed on from a similar event in 2021, which was held over one weekend at the Shieldhall HWRC. Event promoted by all stakeholders via their social media platforms, including Valpak, CCL and the Council. Information also provided on the Council website. Event impacted by the on-set of industrial action during August.
	Provide regular briefing and training sessions for operational staff to highlight the importance of recycling, contamination, excess waste, fly-tipping, additional bins, and the impacts of not segregating recycling	2021	2030	Record details of training and briefing sessions	Procurement exercise for training provider to deliver a formal qualification for up to 50 frontline staff - Principles of Sustainable Resource Management (SCQF L5). Training provider to be appointed Feb/March 2023.

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Pror	Support the Glasgow City Food Plan and Scottish Government Food Waste Reduction Action Plan to reduce food waste arisings in the city	2020	2025	Provision and support of regular communication campaigns. Provision of effective and efficient food waste collection service.	Council officers participate in the Food and Environment Group. Attendance at quarterly meetings of this group. Proposals developed to monitor food waste generation at identified primary schools within the city. Project will be run by Strathclyde University students who will develop a report which will contribute to their coursework.
	Review education and awareness of recycling within schools	2021	2030	Increase visits to schools. Increase liaison with school eco-committees. Ensure appropriate recycling infrastructure in-situ.	On-going liaison of NRS officers with staff from Education Services to review recycling within schools. Provision of re-usable recycling bags to all schools who request them, to assist with transferring target recyclable materials from classrooms to the external recycling bins. Options being explored to provide battery boxes to increase household battery recycling within schools . This is in conjunction with the Council's WEEEE contractor.
	Creation of a recycling portal on the council website	2021	2021	Updated website	New Council website currently under development.
	Support the enforcement of new Houses in Multiple Occupation (HMO) licensing conditions to promote recycling and improve bin provision	2021	2025	Develop processes and procedures with HMO officers	
	Strengthen partnership working with housing associations, factors and private sector landlords to improve the bulk uplift service	2021	2025	Develop processes and procedures with all stakeholders	Booking system fully integrated for access to transfer stations by housing associations, charities and traders. Engagement with all housing associations to discuss the booking system and raise awareness of the Resource & Recycling Strategy.
	In conjunction with the Council's Circular Economy Route Map undertake an education and awareness campaigns to promote re-use of household goods.	2021	2030	Completion of promotional campaigns	Re-use event at all four HWRC for the collection of household WEEE during August 2022. Promoted via Council digital channels, contractor and their sub-contractors social media.
	Conduct regular waste summits to draw on experience of front line operatives and stakeholders within local neighbourhoods to inform future revisions of the strategy.	2021	2030	Review of outcomes from summits on a regular basis.	Summit held via MS Teams on 4 November 2022. Presentation from Zero Waste Scotland and Council officers.

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Enhance Performance	Ensure the council is achieving the best value from all waste and recycling contracts	2020	2030	Regular meetings and review of operational performance with all contractual partners	Volatility continues within the value of materials collected for recycling. Current economical situation has presented challenges for contracted partners with price increases sought to account for increased operating costs, including energy and fuel. Monthly Contract Review meetings have been established with all large recycling suppliers - e.g. bulky waste processing, residual waste treatment, etc Four monthly mini competitions now undertaken for all recyclable outputs from Blochairn MRF to ensure best value. Some competitions are undertaken more frequently in response to market volatility.
	Utilise Zero Waste Scotland carbon metric to measure the performance of councils recycling services	2021	2030	Adoption of other metrics to monitor recycling performance in addition to tonnage	Further work is required to implement carbon metric reporting.
	Minimise the production of and recycle more of the waste streams that have the highest carbon impacts e.g. food waste, textiles, plastics	2021	2030	Collection of additional waste streams for re-use and recycling	Options appraisal for kerbside properties and a consultants report for the new MRF took into account carbon savings that would be implemented by both projects. This helped to inform the bid to the Scottish Government Recycling Improvement Fund.
	Maximise opportunities to access funding via national finance mechanisms e.g. Programme for Government - Protecting Scotland, Renewing Scotland to contribute towards 2025 national recycling targets	2021	2030	Liaison with Zero Waste Scotland and submission of application to the funding program	Awarded £21.2m from the RIF fund to support the introduction of the twin stream recycling service, covering the cost of bins, distribution teams, contamination crews, and food waste liners/caddies. The bid also supports for the construction of the new MRF at Queenslie. 2nd application covering improvements to High density properties planned in 2023
	Undertake waste compositional analysis across the collection services to determine the level of target recyclables placed in general waste bins and contamination levels within recycling bins	2021	2030	Completion of regular waste compositional analysis	Council awarded opportunity to be one of first Councils to undertake waste compositional analysis (WCA) with 75% funding by ZWS. Analysis undertaken on the general waste stream and dry mixed recyclables (blue bins) from both kerbside and flatted properties. WCA took place in February 2022.

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	Utilise qualitative information from the integrated management system (Mayrise/Alloy) to gain information on route performance and allow more targeted stakeholder engagement on the recycling services.	2021	2030	Use of data to initiate targeted campaigns to improve participation in recycling services and reduce contamination	On-going work to link the route identification codes within Alloy to the new weighbridge software to improve qualitative information on individual routes.
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