



Meeting	The Scrutiny Committee
Date and Time	Thursday, 6th June, 2024 at 6.30 pm.
Venue	Walton Suite, Guildhall

S U P P L E M E N T A R Y A G E N D A

The attached document, relating to the agenda item below was not available at the time the agenda was published.

Agenda Item.

8. Procurement of Waste & Recycling Collection Vehicles / Update on Waste and Recycling. (Presentation) (Pages 3 - 14)

City Offices
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Laura Taylor
Chief Executive

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07 June 2024

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Scrutiny Committee 6th June 2024

Procurement of Waste & Recycling Collection Vehicles / Update on Waste and Recycling.

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Campbell Williams
Service Lead – Environmental Services
Winchester City Council

Agenda Item 8



CONFIRMED DECISIONS

February 2024 Cabinet
(CAB3439) agreed:



To seek to introduce a separate collection of food waste by 31st March 2026 with the Councils current contractor Biffa, including to provide quoted prices for the required food waste collection vehicles.

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That the Council will pursue the current lowest carbon viable options as a priority for service delivery.



WHAT IS A FOOD WASTE SERVICE?

- ❖ 23ℓ kerbside caddy, animal proof, equivalent but larger for communal properties
- ❖ 5ℓ kitchen caddy - provided to each household
- ❖ Collected once a week alongside existing collections
- ❖ About 1/3 of household residual waste is food waste
- ❖ Will go to anaerobic digestion facility to generate energy and soil improver
- ❖ Runs in many other authorities – Eastleigh, Rushmoor and Portsmouth collect food waste in Hampshire

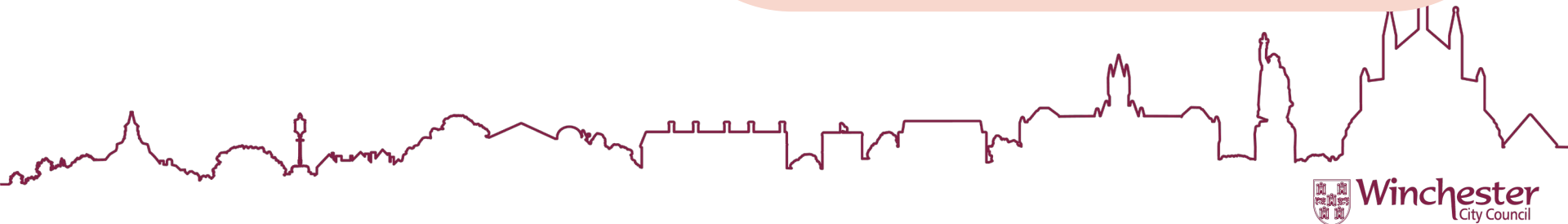
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MODELLING THE FUTURE



- ♣ Recycling the food waste currently mixed in with resident's black bin waste, could save the district circa 1,900 tonnes of CO₂e per year.
- ♣ Biffa and our own consultants, WSP, have determined that we need nine 12 tonne specialist vehicles to collect food waste.
- ♣ To get the most reliable service at the lowest carbon practicable, we need to consider our vehicle choices.



VEHICLE CHOICE

AVAILABILITY AND RELIABILITY OF VEHICLES

- ❖ Our external consultants have identified only one supplier of EV food waste vehicles.
- ❖ Assembled, not manufactured – Warranty? Maintenance? Spare parts?
- ❖ Uncertainty about delivery timescales
- ❖ Only c130 of these vehicles in operation by local authorities around the UK – most as pilot vehicles on short routes in dense urban areas.
- ❖ Diesel vehicles running on HVO are very reliable, tried and tested, with a competitive supplier market.

DEPOT INFRASTRUCTURE

- ❖ The current electricity supply to the depot can only charge 4 small EVs – maximum
- ❖ Infrastructure to support a fully electric fleet is being investigated – will need a sub-station to supply power needed.
- ❖ Infrastructure won't be in place in time for Government deadline for food waste service implementation.

VEHICLE CHOICE

VALUE FOR MONEY

- ❖ HVO reduces CO₂ emissions by up to 94% compared to diesel.

Vehicle Type / fuel	Annual CO ₂ e tonnes per vehicle	Annual tCO ₂ e for 9 vehicles
12t Diesel	24.68	222
12t HVO	0.35	3.15

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- ❖ Removing the last 3.15t CO₂e to zero emissions is extremely costly.
 - ❖ Currently, EV food waste vehicles are more than double the price and unproven in terms of reliability, lifespan and maintenance costs.

HVO vehicle cost	Electric vehicle cost
£135,000	£318,000

- ❖ Only 3 out of 7 rounds are suitable for current EV range capability.
- ❖ Over time the EV market is expected to mature, and range improve.





To optimise the current service Biffa have prepared a round re-route resulting in a mileage reduction of circa 35,000 miles per year, reducing carbon emissions by 13%.



New round created for increasing household numbers needs a new RCV.

This could be an **electric RCV**.

Benefits:

- ❖ Electric RCV's have been around for longer and are proven reliable
- ❖ Pilot to test EV capability and range
- ❖ Relatively low cost to the council
- ❖ Interim solution with HVO backup vehicle to maintain reliable service

Pilot Electric RCV

SUMMARY

Since February's Cabinet decision we have:

- ✓ Assessed finance, carbon reduction costs, depot infrastructure, availability, and reliability of vehicle options.
- ✓ Determined that nine 12t HVO powered vehicles would provide the best value for money, low carbon, reliable option to start the new service.
- ✓ Sourced a low cost electric RCV to pilot in the district as we prepare to transition to zero carbon.
- ✓ Started assessing the process to prepare the depot for a full EV fleet.

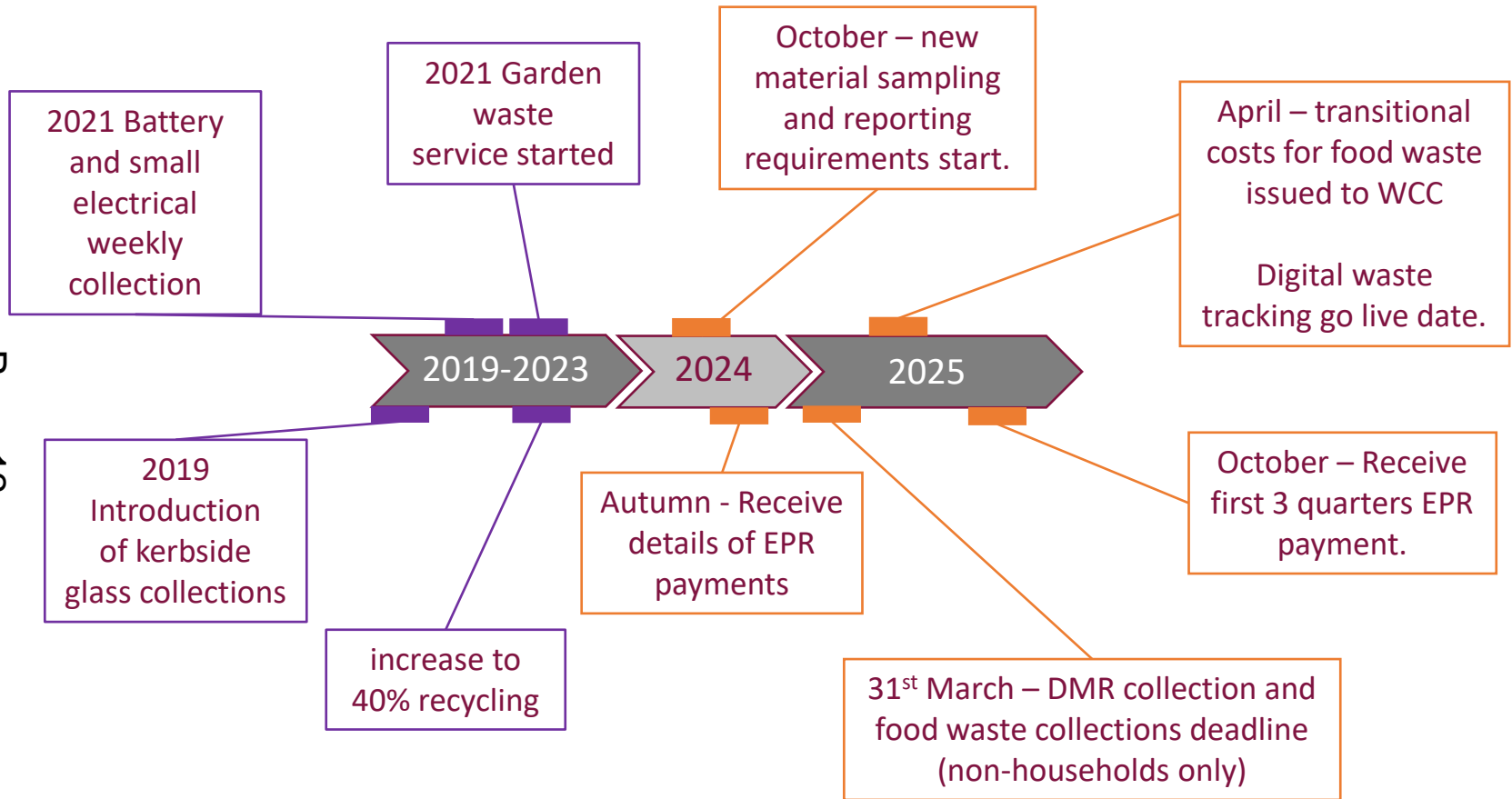


NEXT STEPS

- ❖ Cabinet decision 19th June
- ❖ Govt decision on funding and timing - 24/25
- ❖ Non municipal household waste food waste collection to start April 2025!
- ❖ Current vehicle lead-in time 8 months - 1 year
- ❖ Household food waste collection be fully implemented by April 2026

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DMR – Dry Mixed Recycling inc. pots tubs trays and cartons
DRS – Deposit Return Scheme est. 20p on all non-glass drinks containers
EPR - Extended Producer Responsibility e.g. TESCO pays for packaging

31st March 2027 – deadline for collection of plastic films and flexibles.

Interim targets by 31st Jan 2028:
- Residual
- Food
- Plastic
- Paper & card

75% recycling rate for packaging

April – ongoing costs for food waste issued to WCC.
EPR first quarter payment issued

DMR Collection and food waste for micro-firms.

65% recycling rate for municipal solid waste



31st March – DMR collection and food waste collections deadline (households)

DRS operational 1st October 2027

Municipal waste to landfill 10% or less

Zero avoidable waste

Recyclability labelling mandatory from 31st March 2026 – 31st March 2027 for plastic films.

Energy from waste included in the emissions trading scheme

Eliminate avoidable plastic waste



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