

Committee: Port Health and Environmental Services – For information	Date: 26 11 2019
Subject: Update on Cleansing and Waste Electric Vehicles	Public
Report of: Carolyn Dwyer, Director of the Built Environment	For Information
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Summary

This report updates your Committee on the delivery of vehicles for the new Waste Collection, Street Cleansing and Ancillary Services contract. It advises the reasons received from Veolia for the delays to some of the new production electric vehicles and provides revised expected delivery dates. It also provides an update on the installation of sufficient electrical charging facilities at the Walbrook Wharf Depot.

Recommendation

Members are asked to:

- Note the report.

Main Report

Background

1. The new Waste Collection, Street Cleansing and Ancillary Services contract was awarded to Veolia Environment Services in November 2018 and commenced on the 06 April 2019. Veolia's bid proposed the introduction of 39 new vehicles (comprising of 15 electric, 14 hybrid electric, and 10 low emission) including the provision of the UK's first fully electric 18 tonne refuse collection vehicles to be used on domestic waste services. A full list of these electric, hybrid electric, and low emission vehicles is shown at Appendix 1.
2. Due to the waiting times for electric vehicles from ordering to delivery, and the fact that some of these vehicles are the first production of their type, several of the vehicles were not due to be in operation at the start of the contract. The City Corporation was provided a schedule of when these vehicles were likely to be available for use over the first year of the contract, with interim low emission vehicles being hired in by Veolia to cover until delivery of the new fleet.
3. During the procurement process of the new contract concerns were identified regarding the adequacy of the power supply to provide sufficient charging capability. To adequately charge the proposed new fleet it was likely to be necessary for UKPN to provide a new substation. The City Surveyor initiated a new corporate project to establish and deliver what would be necessary to meet the power requirements of the fleet.

Current Position

4. The charging infrastructure (alongside the power management system to ensure that charging demand does not exceed available supply) was installed and signed off by City Surveyors in September 2019. New charging points have been installed and are being used to charge vehicles. Additional points will be commissioned as and when the vehicles are delivered to site.
5. The 7.5 tonne Tipper Vehicle, 3.5T Small Electric Cage Vehicles, delivery and Flat Bed Vans, along with the Pedestrian Sweeper were delivered and operational from the start of the contract in April 2019.
6. The four Boschung Small Mechanical Electric Sweepers were received in August. The Mitsubishi Gritter Vehicles arrived in September in time for the start of the Winter Maintenance season.
7. The Electra Refuse Collection Vehicles were initially scheduled to be delivered in August 2019. However, the delivery schedule has slipped, and officers understand from Veolia that this was caused by a delay in the delivery to Electra of various components due to high industry demand. The vehicles are currently being built and will require Individual Vehicle Approval (IVA) from the Driver and Vehicle Licensing Authority. This process has added to the delay in delivery as these are the first production vehicle of their kind. Officers have expressed their disappointment at this delay and Veolia have assured the City Corporation that the first vehicle should be received from December 2019, with the remainder to follow at the start of 2020. Veolia's UK Fleet Director is corresponding with Electra directly to ensure this revised timetable is achieved.
8. The Johnston Large Mechanical Electric Sweepers were also scheduled for delivery in August 2019. These vehicles have been built but are also experiencing delays with the IVA process due to an issue regarding performance of the braking system. Veolia are unable to provide officers with a revised delivery date but will provide an update following remedial work to counter the issues faced.
9. Similar issues are faced by the Electric Gully Machine, in part as this is built on the same chassis as the Johnston Sweepers. The supplier is currently undertaking full IVA of the vehicle and this is due to be completed by the end of November 2019. Veolia have advised that this vehicle should be delivered in January 2020. The Carriageway Washer from the same supplier is still on track to be delivered in January 2020 as originally planned.

Corporate & Strategic Implications

10. The introduction of this fleet is a key element of assisting in the City Corporation's air quality goals, as part of outcome 11 of the Corporate Plan.
We have clean air, land and water and a thriving and sustainable natural environment:
 - a. Provide a clean environment and drive down the negative effects of our own activities.

- c. Provide environmental stewardship and advocacy, in use of resources, emissions, conservation, greening, biodiversity and access to nature.

11. The interim vehicles that have been hired by Veolia in order to provide the service until the new vehicles arrive are all Ultra Low Emission Zone compliant and therefore the effect on air quality is minimal as possible.

Implications

12. There are no cost implications to the City Corporation by the delay in the vehicles and there are no implications for the service provision. Despite the delays the delivery by January 2020 will mean this is still the UK's first fully electric Refuse Collection Fleet providing the City Corporation with an excellent opportunity to publicise its efforts in leading by example in this area.

Conclusion

13. The delay in the delivery of some of the electric fleet is being closely monitored by officers who are ensuring that Veolia are making all efforts to obtain the earliest delivery dates possible. The current revised schedule should see the entire fleet in operation by the end of January. Officers will provide a further update should this look likely to change.

Appendices

- Appendix 1 – List of vehicles

Background Papers

[Provide details of previous reports to Committee on this subject]

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Vehicle	Manufacturer	Power Unit	Delivery Date
Refuse Collection Vehicle 18T	Electra	Electric	December 2019
Refuse Collection Vehicle 18T	Electra	Electric	January 2020
Refuse Collection Vehicle 18T	Electra	Electric	January 2020
Refuse Collection Vehicle 18T	Electra	Electric	January 2020
Refuse Collection Vehicle 18T	Electra	Electric	January 2020
Refuse Collection Vehicle 18T	Electra	Electric	January 2020
Refuse Collection Vehicle 18T	Electra	Electric	January 2020
Gully Tanker 18T	Whale	Electric	January 2020
Large Mechanical Sweeper 18T	Johnston	Electric	TBC
Large Mechanical Sweeper 18T	Jonhston	Electric	TBC
Pedestrian Sweeper	Trafalgar	Electric	April 2019
Small Mechanical Sweeper 3.5T	Boschung	Electric	August 2019
Small Mechanical Sweeper 3.5T	Boschung	Electric	August 2019
Small Mechanical Sweeper 3.5T	Boschung	Electric	August 2019
Small Mechanical Sweeper3.5T	Boschung	Electric	August 2019
Cage Tipper Vehicle 7.5T	Mitsubishi	Hybrid	April 2019
Cage Tipper Vehicle 7.5T	Mitsubishi	Hybrid	April 2019
Cage Tipper Vehicle 7.5T	Mitsubishi	Hybrid	April 2019
Cage Tipper Vehicle 7.5T	Mitsubishi	Hybrid	April 2019
Cage Tipper Vehicle 7.5T	Mitsubishi	Hybrid	April 2019
Cage Tipper Vehicle 7.5T	Mitsubishi	Hybrid	April 2019
Cage Tipper Vehicle 7.5T	Mitsubishi	Hybrid	April 2019
Cage Tipper Vehicle 7.5T	Mitsubishi	Hybrid	April 2019
Delivery Van 7.5T	Mitsubishi	Hybrid	April 2019
Flat Bed Van 7.5T	Mitsubishi	Hybrid	April 2019
Small Electric Cage Vehicle 3.5T	Goupil	Electric	April 2019
Small Electric Cage Vehicle 3.5T	Goupil	Electric	April 2019
Small Electric Cage Vehicle 3.5T	Goupil	Electric	April 2019
Small Electric Cage Vehicle3.5T	Goupil	Electric	April 2019
Gritter Vehicle 7.5T	Mitsubishi	Low Emission	September 2019
Gritter Vehicle 7.5T	Mitsubishi	Low Emission	September 2019
Gritter Vehicle 7.5T	Mitsubishi	Low Emission	September 2019
Gritter Vehicle 7.5T	Mitsubishi	Low Emission	September 2019
Light Goods Van (Mobile Fitter)	Renault	Low Emission	April 2019
Clinical Collection Van	Ford	Low Emission	April 2019
Scrubber Dryer	Euromec	Low Emission	April 2019
Flushing Vehicle	Schmidt	Low Emission	April 2019
Hot Power Washing Vehicle	Mitsubishi	Low Emission	April 2019
Carriageway Washer	Whale	Low Emission	January 2020