







Zero Emission Waste and Recycling Vehicle Availability

March 2023

Vicente Jofre Matamala, Cenex



Available Vehicles – RCVs – Page 1







 <p>Dennis Eagle eCollect 6x2</p> <p>Out Now (2020)</p>	Length	10.1 m	 <p>Dennis Eagle eCollect 4x2</p> <p>Out Now (2022)</p>	Length	-	 <p>Mercedes eEconic 6x2</p> <p>Out Now (2021)</p>	Length	8.5 m
	Width	-		Width	2 m		Width	2.5 m
	GVW	26t		GVW	18t		GVW	27t
	Range	-		Range	-		Range	62 mi
	Power Type	Battery Electric		Power Type	Battery Electric		Power Type	Battery Electric
	Batt	300 kWh		Batt	180 kWh		Batt	336 kWh
	Power	200 kW		Power	200 kW		Power	400 kW
⚡DC ⌚	6.75 h	⚡DC ⌚	3.5 h	⚡DC ⌚	1.5 h			
 <p>Electra eCompact 6x2 [1]</p> <p>Out Now (2018)</p>	Length	10.1 m	 <p>Electra eCompact 4x2 [2]</p> <p>Out Now (2019)</p>	Length	-	 <p>Renault D Wide Z.E. 6x2</p> <p>Out Now (2021)</p>	Length	-
	Width	-		Width	2 m		Width	-
	GVW	27t		GVW	19t		GVW	26t
	Range	-		Range	-		Range	-
	Power Type	Battery Electric		Power Type	Battery Electric		Power Type	Battery Electric
	Batt	140 – 315 kWh		Batt	140 – 315 kWh		Batt	350 kWh
	Power	-		Power	-		Power	210 kW
⚡DC ⌚	-	⚡DC ⌚	-	⚡DC ⌚	-			

[1] Repower of Mercedes Econic.

[2] Repower of Dennis Eagle RCV.





Available Vehicles – RCVs – Page 2

Hyzon Refuse Truck 6x2 [3]  Out Now (2021)	Length	-	Faun-Zoeller Blue Power RCV 6x2  On Trial (2022)	Length	-	Ballard RCV 6x2  On Trial (2022)	Length	-
	Width	-		Width	-		Width	-
	GVW	29t		GVW	26t		GVW	26t
	Range	125 mi		Range	-		Range	100 mi
	Power Type	Hydrogen FC		Power Type	Hydrogen FC		Power Type	Hydrogen FC
	Storage	25 kg		Storage	-		Storage	31 kg
	Batt	55 kWh		Batt	-		Batt	30 kWh
	Power	360 kW		Power	-		Power	250 kW
DAF CF Electric - FAN 6x2  Out Now (2020)	Length	-	Volvo FE Electric 6x2  Out Now (2022)	Length	10 m	Volvo FL Electric 4x2  Out Now (2022)	Length	7.7 m
	Width	-		Width	2.5 m		Width	2.3 m
	GVW	27t		GVW	27t		GVW	16t
	Range	Up to 155 mi		Range	Up to 125 mi		Range	Up to 185 mi
	Power Type	Battery Electric		Power Type	Battery Electric		Power Type	Battery Electric
	Batt	170 kWh		Batt	200 – 265 kWh		Batt	200 – 395 kWh
	Power	240 kW		Power	225 kW		Power	130 kW
	⚡DC ⌚	1.25 h		⚡DC ⌚	2h (200 kWh)		⚡DC ⌚	2 h (200 kWh)

[3] Based on Freightliner Econic chassis (Daimler/Mercedes).



Available Vehicles – RCVs – Page 3

EMOSS/RVS e-One 6x2² 	Length	10.1 m	Lunaz UEV 6x2³ 	Length	8.5 m
	Width	-		Width	2.5 m
	GVW	26t		GVW	26t
	Range	-		Range	-
	Power Type	Battery Electric		Power Type	Battery Electric
	Batt	200 kWh		Batt	262 kWh
	Power	-		Power	350 kW
	⚡DC Ⓢ	-		⚡DC Ⓢ	2 h
Out Now (2022)		Out Now (2023)			



² Repower of Dennis Eagle RCV.

³ Based on Freightliner Econic chassis (Daimler/Mercedes).



ULTRA-LOW EMISSION WASTE AND RECYCLING VEHICLES PROGRAMME - FLEET STATUS

Available Vehicles – RRVs*

 <p>Romaquip RQ-E 4x2 [4]</p> <p>Out Now (2022)</p>	Length	7.1 m	 <p>Terberg Electric Kerbloader 4x2 [5]</p> <p>Out Now (2022)</p>	Length	7.7 m
	Width	2.27 m		Width	-
	GVW	12t		GVW	12t
	Power Type	Battery Electric		Power Type	Battery Electric
	Batt	180 kWh		Batt	140 kWh
	# of Compartments	7		# of Compartments	6
	Compressing Compartments	2		Compressing Compartments	2
	⚡DC Ⓜ	-		⚡DC Ⓜ	3.2 h







* RRVs are highly customisable; types and number of compartments vary. More offerings for types of waste are becoming available.

[4] Use of DAF chassis.

[5] Use of Electra glider.



Available Vehicles – Sweepers – Page 1

<p>Bucher MaxPowa V65e 4x2</p>  <p>Out Now (2020)</p>	<table border="1"> <tr><td>Length</td><td>-</td></tr> <tr><td>Width</td><td>2.4 m</td></tr> <tr><td>GVW</td><td>16t</td></tr> <tr><td>Power Type</td><td>Battery Electric</td></tr> <tr><td>Batt</td><td>200 kWh</td></tr> <tr><td>Water Load</td><td>1565 L</td></tr> <tr><td>Hopper Size</td><td>6.5 m³</td></tr> <tr><td>⚡DC ⌚</td><td>5 h</td></tr> </table>	Length	-	Width	2.4 m	GVW	16t	Power Type	Battery Electric	Batt	200 kWh	Water Load	1565 L	Hopper Size	6.5 m ³	⚡DC ⌚	5 h	<p>Faun-Zoeller Blue Power 4x2 [1]</p>  <p>On Trial (2022)</p>	<table border="1"> <tr><td>Length</td><td>-</td></tr> <tr><td>Width</td><td>-</td></tr> <tr><td>GVW</td><td>16t</td></tr> <tr><td>Power Type</td><td>Hydrogen FC</td></tr> <tr><td>Batt</td><td>-</td></tr> <tr><td>Storage</td><td>-</td></tr> <tr><td>Water Load</td><td>-</td></tr> <tr><td>Hopper Size</td><td>-</td></tr> </table>	Length	-	Width	-	GVW	16t	Power Type	Hydrogen FC	Batt	-	Storage	-	Water Load	-	Hopper Size	-	<p>Bucher CityCat VS20e 4x2</p>  <p>Out Now (2021)</p>	<table border="1"> <tr><td>Length</td><td>4.2 m</td></tr> <tr><td>Width</td><td>2.1 m</td></tr> <tr><td>GVW</td><td>3.5t</td></tr> <tr><td>Power Type</td><td>Battery Electric</td></tr> <tr><td>Batt</td><td>45 kWh</td></tr> <tr><td>Water Load</td><td>425 L</td></tr> <tr><td>Hopper Size</td><td>2 m³</td></tr> <tr><td>⚡DC ⌚</td><td>2.5 h</td></tr> </table>	Length	4.2 m	Width	2.1 m	GVW	3.5t	Power Type	Battery Electric	Batt	45 kWh	Water Load	425 L	Hopper Size	2 m ³	⚡DC ⌚	2.5 h
Length	-																																																				
Width	2.4 m																																																				
GVW	16t																																																				
Power Type	Battery Electric																																																				
Batt	200 kWh																																																				
Water Load	1565 L																																																				
Hopper Size	6.5 m ³																																																				
⚡DC ⌚	5 h																																																				
Length	-																																																				
Width	-																																																				
GVW	16t																																																				
Power Type	Hydrogen FC																																																				
Batt	-																																																				
Storage	-																																																				
Water Load	-																																																				
Hopper Size	-																																																				
Length	4.2 m																																																				
Width	2.1 m																																																				
GVW	3.5t																																																				
Power Type	Battery Electric																																																				
Batt	45 kWh																																																				
Water Load	425 L																																																				
Hopper Size	2 m ³																																																				
⚡DC ⌚	2.5 h																																																				
<p>Bucher CityCat V20e 4x2</p>  <p>Out Now (2021)</p>	<table border="1"> <tr><td>Length</td><td>5.3 m</td></tr> <tr><td>Width</td><td>2.1 – 2.7 m</td></tr> <tr><td>GVW</td><td>3.5t</td></tr> <tr><td>Power Type</td><td>Battery Electric</td></tr> <tr><td>Batt</td><td>63 kWh</td></tr> <tr><td>Water Load</td><td>425 L</td></tr> <tr><td>Hopper Size</td><td>2 m³</td></tr> <tr><td>⚡DC ⌚</td><td>3 h</td></tr> </table>	Length	5.3 m	Width	2.1 – 2.7 m	GVW	3.5t	Power Type	Battery Electric	Batt	63 kWh	Water Load	425 L	Hopper Size	2 m ³	⚡DC ⌚	3 h	<p>Bucher CityCat VR50e 4x2</p>  <p>Out Now (2022)</p>	<table border="1"> <tr><td>Length</td><td>6.2 m</td></tr> <tr><td>Width</td><td>2.5 – 3.8 m</td></tr> <tr><td>GVW</td><td>10.5t</td></tr> <tr><td>Power Type</td><td>Battery Electric</td></tr> <tr><td>Batt</td><td>137 kWh</td></tr> <tr><td>Water Load</td><td>880 L</td></tr> <tr><td>Hopper Size</td><td>5.6 m³</td></tr> <tr><td>⚡DC ⌚</td><td>2 h</td></tr> </table>	Length	6.2 m	Width	2.5 – 3.8 m	GVW	10.5t	Power Type	Battery Electric	Batt	137 kWh	Water Load	880 L	Hopper Size	5.6 m ³	⚡DC ⌚	2 h	<p>Boschung Urban Sweeper 2.0 4x2</p>  <p>Out Now (2018)</p>	<table border="1"> <tr><td>Length</td><td>4.3 – 5 m</td></tr> <tr><td>Width</td><td>2.3 – 2.6 m</td></tr> <tr><td>GVW</td><td>4t</td></tr> <tr><td>Power Type</td><td>Battery Electric</td></tr> <tr><td>Batt</td><td>54.4 kWh</td></tr> <tr><td>Water Load</td><td>-</td></tr> <tr><td>Hopper Size</td><td>2 m³</td></tr> <tr><td>⚡DC ⌚</td><td>1.75 h</td></tr> </table>	Length	4.3 – 5 m	Width	2.3 – 2.6 m	GVW	4t	Power Type	Battery Electric	Batt	54.4 kWh	Water Load	-	Hopper Size	2 m ³	⚡DC ⌚	1.75 h
Length	5.3 m																																																				
Width	2.1 – 2.7 m																																																				
GVW	3.5t																																																				
Power Type	Battery Electric																																																				
Batt	63 kWh																																																				
Water Load	425 L																																																				
Hopper Size	2 m ³																																																				
⚡DC ⌚	3 h																																																				
Length	6.2 m																																																				
Width	2.5 – 3.8 m																																																				
GVW	10.5t																																																				
Power Type	Battery Electric																																																				
Batt	137 kWh																																																				
Water Load	880 L																																																				
Hopper Size	5.6 m ³																																																				
⚡DC ⌚	2 h																																																				
Length	4.3 – 5 m																																																				
Width	2.3 – 2.6 m																																																				
GVW	4t																																																				
Power Type	Battery Electric																																																				
Batt	54.4 kWh																																																				
Water Load	-																																																				
Hopper Size	2 m ³																																																				
⚡DC ⌚	1.75 h																																																				

[1] Repower of Mercedes Eonic.



Available Vehicles – Sweepers – Page 2

 <p>Dulevo D.Zero² 4x2</p> <p>Out Now (2017)</p>	Length	-	 <p>MaxVac Electra 2.0 4x2</p> <p>Out Now (2018)</p>	Length	3.8 m	 <p>Ravo 5 e-Series 4x2</p> <p>Out Now (2020)</p>	Length	4.6 m
	Width	1.8 – 3.4 m		Width	2.3 m		Width	3.4 m
	GVW	-		GVW	3.5t		GVW	11.4t
	Power Type	Battery Electric		Power Type	Battery Electric		Power Type	Battery Electric
	Batt	58 – 77 kWh		Batt	-		Batt	100 kWh
	Water Load	-		Water Load	400 L		Water Load	600 L
	Hopper Size	2.1 m ³		Hopper Size	2 m ³		Hopper Size	5 m ³
	⚡DC ⌚	2.5 h		⚡AC ⌚	-		⚡DC ⌚	2 h
 <p>Schmidt eCityJet 3030 4x2</p> <p>Out Now (2020)</p>	Length	5 m	 <p>Schmidt eCleango 550 4x2</p> <p>Out Now (2022)</p>	Length	4.7 – 5.8 m	 <p>Schmidt eSwingo 200⁺ 4x2</p> <p>Out Now (2019)</p>	Length	4.2 – 5.2 m
	Width	1.4 m		Width	2 m		Width	1.4 – 2.9 m
	GVW	-		GVW	11.5t		GVW	8.3t
	Power Type	Battery Electric		Power Type	Battery Electric		Power Type	Battery Electric
	Batt	75 kWh		Batt	100 – 150 kWh		Batt	75 kWh
	Water Load	1500 L		Water Load	750 L		Water Load	400 L
	Hopper Size	-		Hopper Size	5.5 m ³		Hopper Size	2 m ³
	⚡AC ⌚	4 h		⚡AC ⌚	-		⚡AC ⌚	4 h